

**U.S. DEPARTMENT OF COMMERCE  
National Technical Information Service**

**PB-261 717**

# **National Soils Monitoring Program for Pesticide Residues, FY 1969**

**Environmental Protection Agency, Washington, D C**

**Prepared for**

**Environmental Protection Agency, Gulfport, Miss Pesticides Regulation Div**

**1 Jul 72**

005059

PB 261 717

NATIONAL SOILS MONITORING PROGRAM  
FOR  
PESTICIDE RESIDUES  
FY 1969



JULY 1, 1972

UNITED STATES  
ENVIRONMENTAL PROTECTION  
AGENCY

Washington, D. C.

REPRODUCED BY  
NATIONAL TECHNICAL  
INFORMATION SERVICE  
U. S. DEPARTMENT OF COMMERCE  
SPRINGFIELD, VA. 22161

EPA-540/9-76-034

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                  |    |                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------|----|------------------------------|
| <b>BIBLIOGRAPHIC DATA SHEET</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 1. Report No.<br>EPA-540/9-76-034                | 2. | 3. Recipient's Accession No. |
| 4. Title and Subtitle<br>National Soils Monitoring Program For Pesticide Residues, FY 1969                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 5. Report Date<br>July 1, 1972                   |    |                              |
| 7. Author(s)<br>G.B. Wiersma, H. Tai and P.F. Sand                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 6. Performing Organization Rept. No.             |    |                              |
| 9. Performing Organization Name and Address<br>Pesticides Regulation Division,<br>Office of Pesticide Programs, EPA; Plant Protection and Quarantine Programs, APHIS, US Department of Agriculture                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 10. Project/Task/Work Unit No.                   |    |                              |
| 12. Sponsoring Organization Name and Address<br>U.S. Environmental Protection Agency, Washington, D.C. 20460<br>and<br>U.S. Department of Agriculture, Washington, D.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 11. Contract/Grant No.                           |    |                              |
| 13. Type of Report & Period Covered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 14.                                              |    |                              |
| 15. Supplementary Notes This report is a summary of the results of the National Soils Monitoring Program, an integral part of the National Pesticide Monitoring Program (NPMP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                  |    |                              |
| 16. Abstracts This report lists pesticide residues in cropland soil for 43 states and noncropland soil for 11 of these. Tables for each state give arithmetic means, range, number of samples collected and percent of sites with detectable residues. In addition, for selected pesticides and various states and state groupings, a frequency distribution of pesticide residues is presented. Use records for the year of sampling are summarized by the pesticide used, the percent of farms using it, the average application rate and the average amount applied. Comparisons are made between residue levels in different land use areas. The tons of DDT, aldrin and dieldrin residues present in cropland soil are estimated. |  |                                                  |    |                              |
| 17. Key Words and Document Analysis. 17a. Descriptors<br>monitoring cropland soil<br>soils<br>pesticide residues<br>cropland<br>application rate<br>amount applied<br>statistics<br>DDT<br>aldrin<br>dieldrin<br>17b. Identifiers/Open-Ended Terms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                  |    |                              |
| 17c. COSATI Field Group                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                  |    |                              |
| 18. Availability Statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 19. Security Class (This Report)<br>UNCLASSIFIED |    | 21. No. of Pages<br>156      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 20. Security Class (This Page)<br>UNCLASSIFIED   |    | 22. Price<br>6.75            |

NATIONAL SOILS MONITORING PROGRAM FOR  
PESTICIDE RESIDUES-FY 1969

G. B. Wiersma<sup>1</sup>, H. Tai<sup>2</sup>, and P. F. Sand<sup>3</sup>

ABSTRACT

This report is a summary of the results of the National Soils Monitoring Program, an integral part of the National Pesticide Monitoring Program (NPMP). It reports pesticide residues in cropland soil for 43 states and noncropland soil for 11 of these. Tables for each state give arithmetic means, range, number of samples collected and percent of sites with detectable residues. In addition, for selected pesticides and various states and state groupings, a frequency distribution of pesticide residues is presented. Use records for the year of sampling are summarized by the pesticide used, the percent of farms using it, the average application rate and the average amount applied. Comparisons are made between residue levels in different land use areas. The tons of DDT, aldrin and dieldrin residues present in cropland soil are estimated.

---

<sup>1</sup> Pesticides Regulation Division, Office of Pesticide Programs, Environmental Protection Agency, Washington, D.C.

<sup>2</sup> Pesticides Regulation Division, Office of Pesticide Programs, Environmental Protection Agency, Gulfport, Mississippi.

<sup>3</sup> Plant Protection and Quarantine Programs, Animal and Plant Health Inspection Service, U.S. Department of Agriculture, Hyattsville, Maryland.



NATIONAL SOILS MONITORING PROGRAM FOR  
PESTICIDE RESIDUES-FY 1969

G. B. Wiersma<sup>1</sup>, H. Tai<sup>2</sup>, and P. F. Sand<sup>3</sup>

ABSTRACT

This report is a summary of the results of the National Soils Monitoring Program, an integral part of the National Pesticide Monitoring Program (NPMP). It reports pesticide residues in cropland soil for 43 states and noncropland soil for 11 of these. Tables for each state give arithmetic means, range, number of samples collected and percent of sites with detectable residues. In addition, for selected pesticides and various states and state groupings, a frequency distribution of pesticide residues is presented. Use records for the year of sampling are summarized by the pesticide used, the percent of farms using it, the average application rate and the average amount applied. Comparisons are made between residue levels in different land use areas. The tons of DDT, aldrin and dieldrin residues present in cropland soil are estimated.

---

<sup>1</sup> Pesticides Regulation Division, Office of Pesticide Programs, Environmental Protection Agency, Washington, D.C.

<sup>2</sup> Pesticides Regulation Division, Office of Pesticide Programs, Environmental Protection Agency, Gulfport, Mississippi.

<sup>3</sup> Plant Protection and Quarantine Programs, Animal and Plant Health Inspection Service, U.S. Department of Agriculture, Hyattsville, Maryland.

## INTRODUCTION

The National Soils Monitoring Program is an integral part of the National Pesticide Monitoring Program (NPMP). The NPMP was initiated as a result of the recommendations made by the President's Science Advisory Committee report of 1964, entitled "Use of Pesticides". The committee recommended that the appropriate Federal agencies "develop a continuing network to monitor residue levels in air, water, soil, man, wildlife, and fish" (1).

The objectives of the NPMP are to determine levels and trends of pesticides in the various components of the environment (2). This will result in the establishment of baseline or background levels of pesticide residues which in turn can be used as a basis for comparison of subsequently identified pesticide residue levels in an environmental component.

The NPMP (2) lists five bases for concern to be used in evaluating pesticide residue levels. They are:

1. Any concentration of a pesticide known to be potentially harmful
2. Increasing trends
3. Exceeding standards (where they exist)
4. Recognition of adverse effects on humans
5. Erratic variability<sup>1</sup>

---

<sup>1</sup> A statistically oriented observation that is potentially common to each stratum sampled.

The results of this study meet the first objective of the NPMP by establishing a baseline of pesticide residues in cropland soils at a particular point in time. Subsequent soil sampling will enable us to meet the second objective.

The present data and all future data will be reviewed bearing in mind the five bases of concern outlined above.

#### SAMPLING PROCEDURES & METHODS

In general, techniques involved in this study were the same as those employed by Wiersma et al. (3).

In FY 1969 cropland soil was sampled in all states except Alaska, Hawaii, Kansas, Minnesota, Montana, Oregon and Texas. Noncropland was sampled in Arizona, Georgia, Idaho, Iowa, Maine, Maryland, Nebraska, Virginia, Washington, West Virginia and Wyoming. Samples collected in the year of the study included both soil and crop. Only those crops that were mature and/or ready for harvest at time of collection were sampled.

#### ANALYTICAL PROCEDURES

##### ORGANOCHLORINE AND ORGANOPHOSPHOROUS COMPOUNDS

##### 1. Preparation of sample

A subsample of 300 g wet weight of soil was placed in a 2-quart fruit jar with 600 ml of 3:1 hexane-isopropanol solvent. The jars were sealed and rotated for 4 hours. After rotation, the soil was allowed to settle and 200 ml of the extract solution was filtered into a 500 ml separatory funnel.

Isopropanol was removed with two washings of distilled water. The remaining solution was then filtered through a funnel containing glass wool and anhydrous sodium sulfate ( $\text{Na}_2\text{SO}_4$ ). Further cleanup was normally not required before analysis.

## 2. Gas-liquid chromatography

Analyses were performed on gas chromatographs equipped with tritium foil electron affinity detectors for organochlorine compounds and thermionic or flame photometric detectors for organophosphorous compounds. A dual column system employing polar and nonpolar columns was utilized to identify and confirm pesticides. Instrument parameters were as follows:

(a) Column: glass 6 mm o.d. x 4 mm i.d., 183 cm long, packed with one of the following:

3% DC-200 on 100/120 mesh Gas-Chrom Q

9% QF-1 on 100/120 mesh Gas-Chrom Q

(b) Carrier gas: 5% methane-argon at a flow rate of 8 ml/min.

(c) Temperature:

Detector: 200°C

Injection Port: 250°C

Column QF-1: 166°C

Column DC-200: 170-175°C



When necessary, confirmation of residues was made by thin-layer chromatography, or p-values. The lower limit of detection is 0.01 ppm. The data are corrected for recovery. The average recovery rate for all pesticides was 100% plus or minus 10%. All residue data are also corrected to dry weight basis.

#### ATRAZINE

##### 1. Preparation of sample

After a 4-hour Soxhlet extraction of a 50 g subsample of soil with 25 ml of water and 300 ml of methanol, the sample extract was transferred to a 1-liter separatory funnel and 200 ml of water added.

The sample extract was partitioned three times with a portion of 150 ml of freon 113 for each partitioning. The freon 113 fractions were combined and concentrated to incipient dryness. The sample was then dissolved in hexane, adjusted to a 5 ml volume and injected into a gas-liquid chromatograph.

##### 2. Gas-liquid chromatography

Thermionic flame detector with rubidium sulfate coating on a helix coil was used. Instrument parameters were as follows:

(a) Column: glass 6 mm o.d. x 4 mm i.d., 183 cm long, packed with 3% Versamid 900 on 100/120 mesh Gas-Chrom Q

(b) Carrier gas: helium

(c) Detector fuel gas: oxygen (200-300 ml/min.),  
hydrogen (20-30 ml/min.)

## (d) Temperature:

|                 |       |
|-----------------|-------|
| Detector:       | 240°C |
| Injection Port: | 240°C |
| Column:         | 240°C |

Confirmation was made using a DC-200 column at 180°C and a Coulson detector (reductive mode) at the following temperature settings:

|                 |       |
|-----------------|-------|
| Pyrolysis tube: | 850°C |
| Transfer line:  | 220°C |
| Block:          | 220°C |

## 2,4-D

Analyses were made following the procedure developed by Woodham (4). The analytical method involved a diethyl ether extraction of acidified soil, an alkali wash to remove interfering substances, and an esterification procedure using 10% boron trichloride in 2-chloroethanol reagent. The 2-chloroethyl ester of 2,4-D was then analyzed by gas chromatography.

## ARSENIC

Arsenic was determined by atomic absorption spectrophotometry. The soil sample was first extracted with 9.6N hydrochloric acid (HCL) and reduced to trivalent arsenic with stannous chloride. The trivalent arsenic was partitioned from HCL solution to benzene, then further partitioned into water for the absorption measurement. A Perkin-Elmer Model

303 instrument was used, absorbance being measured with an arsenic lamp at 1972 Å with argon as an aspirant to an air-hydrogen flame. Recovery value for arsenic averaged 50%.

#### RESULTS

The data in this report are for soils only, and are presented in the tables for all states sampled in the study. The data are further divided between cropland and noncropland. Caution should be exercised when interpreting the arithmetic means presented in the tables. Pesticide residue data are not normally distributed and the arithmetic means for pesticide residues tend to be greater than the corresponding median. Therefore, they cannot be considered an indication of the central tendency of the data. Information accompanying the arithmetic means in this report such as the percent of occurrence, range and number of observations can aid in evaluating the arithmetic mean.

#### RESIDUES-ALL STATES

Soil residues are summarized in a variety of ways. They include arithmetic means, the percent of times a detectable residue was found and the range of detected residues. The residue summaries for cropland for all 43 states are presented in Table 1. The means given are arithmetic. The lower limit of sensitivity, as stated earlier, is 0.01 ppm, and this was used

to calculate the percent of times a detectable residue was found. DDTR is a compilation of all the members of the DDT group.

Elemental arsenic residues were found most frequently, with a percent of occurrence of 99.3 and a mean level of 6.4 ppm. It is probable that the majority of this arsenic was from natural sources, although cultural sources cannot be ruled out at this time.

The most widely distributed pesticide was dieldrin, with 27.8% of the samples having detectable residues. It was followed closely by the total DDT residues (DDTR). Aldrin was found in 10.9% of the samples and chlordane in 8.7% of the samples.

The highest mean residue was DDTR, with 0.31 ppm found in cropland soils. With the exception of individual members of the DDT group, the other pesticides had average residues ranging from below the limits of sensitivity to 0.07 ppm.

The figures for atrazine, 2,4-D and the organophosphates (Table 1) are not truly comparable with those generated for the chlorinated hydrocarbons or arsenic, because analyses for atrazine and 2,4-D were made only when the use records indicated they had been applied. Analyses for organophosphates were made on only 66 of the 1729 samples.

With this in mind, note that ethyl parathion was detected 10.6% of the time, with a mean residue of 0.06 ppm. Malathion and diazinon were each detected 3.0% of the time with mean residue levels from below the limits of sensitivity to 0.01 ppm.



One-hundred-eighty-eight chemical analyses were made for 2,4-D and the other chlorophenoxy herbicides. 2,4-D was the only one detected, and it was found in 1.6% of the samples with a mean pesticide level less than 0.01 ppm. Atrazine was detected in 14.1% of the samples with a mean residue level of 0.01 ppm. This herbicide had the highest mean residue of the herbicides detected. Trifluralin was detected in 3.5% of the samples with a mean residue level of less than 0.01 ppm.

The residues found in noncropland soils for the 11 previously listed states are presented in Table 2. The mean arsenic residue was 5.0 ppm occurring in 98.5% of the samples. DDTR was detected in 16.1% of the noncropland soils. DDTR residues ranged from 0.01 to 0.62 ppm with a mean residue level of 0.01 ppm. With the exception of members of the DDT group, dieldrin was the most widely distributed pesticide, occurring in 4.0% of the samples with residues ranging between 0.01 to 0.09 ppm and a mean residue level less than the detectable limits of the chemical assay.

It is possible to estimate the total amount of certain pesticides present in cropland soil. This has been done for dieldrin, aldrin and DDTR, three of the most commonly occurring pesticide residues. A weighted mean was calculated using the individual state averages. The data were transformed using a  $\log(X+0.01)$  transformation and the geometric mean and 95% confidence intervals were calculated.

Since soil cores were 3 inches deep, and an acre of soil with this depth weighs approximately one million pounds, residue figures in parts per million can be directly converted to pounds per acre. Total acres in crops were obtained from "Agricultural Statistics 1970" (5). Figures for acreage used to estimate the amounts of pesticides shown in Table 3 were for the 48 coterminous states and included all cropland used for crops or cropland idle or in cover crops; but did not include cropland used only for pasture since this category was not included under cropland in the original sampling design. The total estimated acreage was approximately 387 million acres.

The use records collected in this study do not lend themselves readily to a statistical estimate of the total tons of DDT applied; therefore, the use records from the Economic Research Service (ERS) (6) are used for comparison purposes. ERS estimated that farmers used approximately 14,950 tons of DDT in 1966. In our study, 10,565 tons of DDTR were detected in soil. This is approximately 71% of the total used in 1966. The amount of DDT actually used in 1968 was probably less than that used in 1966, since there has been a general decline in its use. ERS also estimated that 7,742 tons of aldrin/dieldrin were used by farmers in 1966. In 1968, 4,180 tons of dieldrin and 3,889 tons of aldrin were detected as residues in cropland soil. The combined aldrin/dieldrin residues were 8,069 tons or 104% of the total amount applied in 1966.

Clearly considerable amounts of DDTR, aldrin and dieldrin are present in the upper 3 inches of cropland soil. The fate and impact of these residues cannot be evaluated at this time.

#### RESIDUES-INDIVIDUAL STATES

The pesticide residue summaries for cropland by individual states are given in Table 4 and similar results for noncropland in Table 5. It would be impractical to attempt to comment on the results for each state. Therefore, in order to facilitate summarizing the data, Figures 1, 2 and 3 are presented. These are for three of the most commonly occurring residues, arsenic, DDTR and dieldrin. Means for each pesticide in each state were calculated, and distribution of these averages are indicated on the corresponding figures.

The class intervals for the keys accompanying each figure were obtained in the following manner. The range of residues for the nation was obtained and the highest value was converted to a logarithm. This value was then divided by the number of desired classes. The resulting intervals were added to obtain the class boundaries which in turn were converted to the untransformed dimensions. Essentially, this took advantage of the fact that most residue data are logarithmically distributed.

Distribution of arsenic residues across the United States is presented in Figure 1. The highest residue levels were found in the New England states<sup>1</sup>, Arkansas, Kentucky, New York, North Dakota, Ohio and Pennsylvania. These states and groups of states had mean residues of arsenic greater than 8.4 ppm. The remaining residues were distributed primarily in the 2.0 to 8.4 ppm range, with Wyoming and Florida having less than 2.0 ppm. Those states left blank were not sampled.

The distribution of DDT residues (DDTR) is shown in Figure 2. Once again, the key indicates the range of residues for each of the class intervals. A similar map for dieldrin residues is presented in Figure 3.

A comparison of the mean residues, the percent of times detected and the range for the 12 states with the highest arsenic residues are shown in Table 6.

The five states with the highest DDTR residues are presented in Table 7. Although Michigan has a mean residue of 2.09 ppm and a range of 0.01 to 78.36 ppm, only 23.5% of the samples had detectable residues, indicating that the residues were not widely distributed. Mississippi had a mean residue of 2.06 ppm with 89.7% of its sites having detectable residues. Also, the range was narrower,

---

<sup>1</sup> Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont.



running between 0.03 to 13.14 ppm. This indicates a much wider distribution of pesticide residues in Mississippi than in Michigan.

The seven states with the highest dieldrin residues are shown in Table 8. The highest mean residue, 0.11 ppm, was found in Illinois, with 61.3% of the sites having detectable residues. In general, the other six states tended to have mean residues approximating one another and ranging between 0.06 to 0.08 ppm.

#### PESTICIDE USE RECORDS

When soil samples were collected, an attempt was made to determine what pesticides had been used on the sites for the year of sampling. The summary tables for the use records show the percent of times a pesticide was used, the average application rate expressed in pounds per acre of the active ingredients, and the average amount. This last figure was determined by dividing the total amount of active ingredient of a pesticide used by the total number of sites surveyed.

Table 9 shows 130 different pesticides reported to have been used in the year of sampling. Those most commonly used were atrazine, captan, 2,4-D, malathion and methylmercury dicyandiamide. DDT was used on 3.44% of the sites, aldrin on 4.16% of the sites and dieldrin on 1.19% of the sites.

On noncropland sites 2,4-D, malathion and mirex were reported to have been used (Table 10). However, these should not be considered

the only pesticides used on noncropland sites. In general, records kept for treatment of noncropland sites are less accurate than those kept for cropland. The breakdown of pesticide usage by individual states for cropland and noncropland, respectively, are shown in Tables 11 and 12.

Because of the number of states and pesticides presented in Tables 11 and 12, it is difficult to make all possible comparisons between the use patterns indicated and the detected residues shown in Tables 4 and 5. Therefore, we have restricted our comparison to those states having the highest residues as shown in Figures 1, 2 and 3.

Table 13 compares those states having the highest arsenic residues with the average amount applied per site and the percent of sites which reported using an arsenic compound. There does not seem to be a relationship between the amount of arsenic applied and the amount detected in the soil. Arkansas, Kentucky, North Dakota and Ohio reportedly used no arsenic compounds, whereas New England, New York and Pennsylvania reported using sodium arsenite and lead arsenate. The application rates were below the detected levels, and the percent of times used was below the percent of times residues were detected. It also must be considered that the application rates were for the active ingredients of sodium arsenite

and lead arsenate, and not for elemental arsenic alone. A fair assumption would be that most arsenic residues detected in cropland soils probably resulted from natural levels of arsenic.

A similar comparison for the five states with the highest DDTR residues is found in Table 14. In this case, there is not the confusing factor of natural levels of DDTR as there is with arsenic. We can assume that DDTR detected in the soil resulted from the activities of man, either in the year of sampling or in previous years. Note that of the five states listed, California, Michigan, Mississippi and South Carolina have application rates less than the mean amount detected in the soil. It is also interesting to compare the percent of sites which reported using technical DDT in the year of sampling. The percent of times residues were detected was approximately three or more times greater than the percent of times farmers reported using DDT.

Table 15 shows the seven states with the highest dieldrin residues. In most cases, the average amount of aldrin/dieldrin applied approximated the mean residue of dieldrin detected in the soil, but the percent of times which dieldrin or aldrin were reported used was always considerably less than the percent of times detected. This wider distribution of dieldrin residues, when compared to use records for the year of sampling, probably indicates residues from previous years.

#### PESTICIDE FREQUENCY DISTRIBUTION

The statistics discussed so far about residue data, namely the mean, the range and the percent of times that the residues were detected, do not describe their distribution. One way to describe this distribution is through the use of probit analysis. The residue levels were ranked from lowest to highest, accumulated, and the percentages computed. The residues were transformed to logarithms, the percentages to probits, and the relationship between the logarithms of the residues and the probits of the accumulated percentages was calculated by regression analysis. The computer program used was that of Daum (8). The theory and techniques as applied in the cited reference were modified slightly.

The distribution for the individual pesticides in soil for each state, and the residue levels along with the upper and lower 95% fiducial limits are presented in Table 16. An example will show how the tables are read. In the state of Alabama, the 50 percentile point for arsenic was 4.09 ppm. Thus, 50% of the sites had residues less than 4.09 ppm. A similar interpretation is applicable to any of the percentile levels found in Table 16. The upper and the lower fiducial limits of the residues establish the 95% confidence interval about the residue value for that percentile. It should be noted that the mean for a particular state, is not the same as the 50 percentile point from the



frequency distribution. For example, the mean level of arsenic for Alabama was 6.1 ppm, while the frequency distribution gives 4.09 ppm for the 50 percentile point. In other words, approximately 70% of the sites had residues less than the arithmetic mean. This is an example of the fact that residue data are not normally distributed and the mean and median are not identical.

Not all pesticides are shown for all states. A cut-off point of six or more pairs of observations was used to eliminate situations where there were too few observations to calculate a reliable distribution.

#### CROPPING REGIONS ANALYSIS

The data were grouped by counties into various cropping regions, and these are shown in Tables 17 and 18. The basis for the boundaries of the various cropping areas was from a major land use map of the United States compiled by F. J. Marschner, of the U.S. Department of Agriculture, Bureau of Agricultural Economics, 1950. No effort was made to make a land use division within counties. This resulted in a good definition of the larger land use areas such as the corn belt and cotton-growing areas. The land in the United States was grouped into several major land use areas--corn, cotton, fruit, general farming, hay, small grain, and vegetables. In some cases, two areas overlapped. Irrigated land was determined from information obtained at the time of sample collection in this study.

It is of interest to make a few individual comparisons between the cropping regions and the national means. For example, note that in the corn region, aldrin occurs 23.5% of the time (Table 18) with a mean residue level of 0.05 ppm (Table 17). However, nationally, aldrin only occurs 10.9% of the time with a mean level of 0.02 ppm (Table 1), an indication of the heavier use of aldrin in the corn region. But, in the corn region, the mean residue level of DDT is 0.14 ppm which is well below the national mean of 0.31 ppm. Atrazine in the corn region has a mean residue level of 0.02 ppm with 14.5% of sites having detectable residues. This approximates closely the figure presented in Table 1 for atrazine in all the states.

The vegetable and fruit cropping region has the highest level of DDTR, over two times higher than the next highest cropping region and over six times higher than the national mean for DDTR. This might result from a high use of DDT in various orchard operations. The next highest residue is found in the cotton and vegetable region, with approximately equal amounts detected between them. The rest of the amounts of DDT in the cotton and general farming, general farming, hay and general farming, and irrigated land are within close proximity to one another. The two areas with the least amount of DDT in the soil are the corn and small grains cropping regions.

The corn, vegetable, and vegetable and fruit cropping regions have the heaviest residues of dieldrin. Residues of dieldrin in the other cropping regions are either equal to or below the mean residues detected for all states (Table 1).

The highest toxaphene residues were found in the cotton cropping region. The cotton and general farming, and general farming cropping regions have residue levels of about half those detected in the cotton cropping region.

- (1) Bennett, I. L. 1967. Foreword. Pestic. Monit. J. 1(1).
- (2) Panel on Pesticide Monitoring. 1971. Criteria for defining pesticide levels to be considered an alert to potential problems. Pestic. Monit. J. 5:36.
- (3) Wiersma, G. B., P. F. Sand and E. L. Cox. 1971. A sampling design to determine pesticide residue levels in soils of the conterminous United States. Pestic. Monit. J. 5:63-66.
- (4) Woodham, W. 1971. An improved gas chromatographic method for the analysis of 2,4-D free acid in soil. J. Agric. Food Chem. 19:186-188.
- (5) Anon. 1970. Agricultural Statistics 1970. United States Government Printing Office, Washington, D.C. 627 p.
- (6) Eichers, T. et al. 1970. Quantities of pesticides used by farmers in 1966. USDA Economic Research Service. Agricultural Economic Report No. 179. 61 p.
- (7) Fowler, L. D., J. N. Mahan and H. H. Shepard. 1969. The pesticide review. 1969. USDA Agricultural Stabilization and Conservation Service. 48 p.
- (8) Daum, R. L. 1970. Revision of two computer programs for probit analysis. Bull. Entomol. Soc. Am. 16:10-15.



FIGURE 1  
CROPLAND--ARSENIC RESIDUES

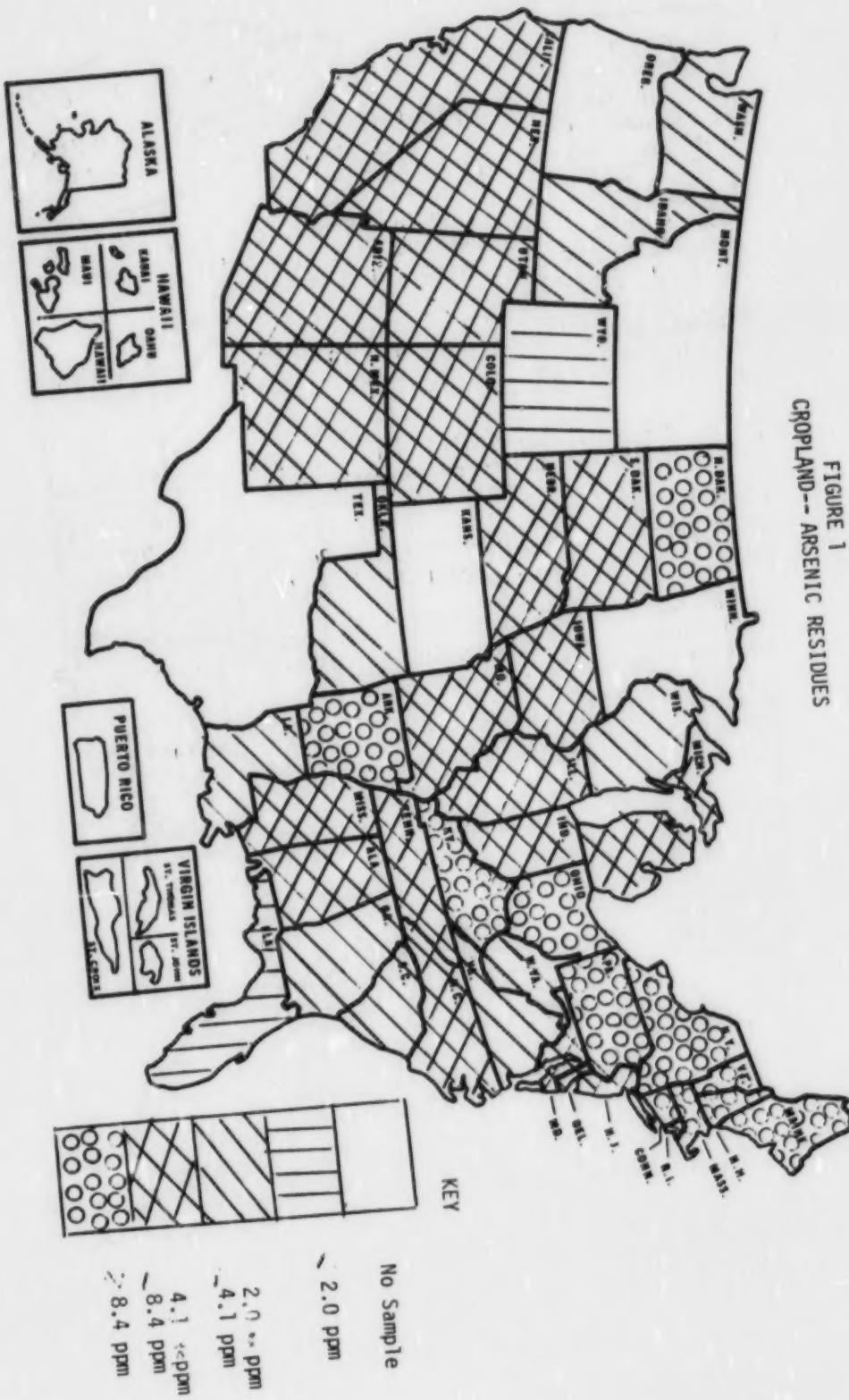






TABLE 1. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL FOR ALL STATES

| Pesticide Name     | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|--------------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Aldrin             | 1729                     | 10.9                   | 0.02                         | 0.01 - 3.06                            |
| Arsenic            | 1726                     | 99.3                   | 6.43                         | 0.25 - 107.45                          |
| Atrazine           | 199                      | 14.1                   | 0.01                         | 0.01 - 1.55                            |
| Carbophenothion    | 66                       | 1.5                    | <0.01                        | 0.23 - 0.23                            |
| Chlordane          | 1729                     | 8.7                    | 0.04                         | 0.01 - 6.30                            |
| 2,4-D              | 188                      | 1.6                    | <0.01                        | 0.01 - 0.03                            |
| DAC                | 1729                     | 0.1                    | <0.01                        | 0.54 - 0.54                            |
| op'DDE             | 1729                     | 4.6                    | <0.01                        | 0.01 - 0.20                            |
| pp'DDE             | 1729                     | 24.8                   | 0.06                         | 0.01 - 6.99                            |
| op'DDT             | 1729                     | 14.1                   | 0.03                         | 0.01 - 6.29                            |
| pp'DDT             | 1729                     | 22.2                   | 0.17                         | 0.01 - 35.92                           |
| DDTR               | 1729                     | 26.1                   | 0.31                         | 0.01 - 78.36                           |
| DEF                | 1729                     | 0.1                    | <0.01                        | 0.12 - 0.12                            |
| Diazinon           | 66                       | 3.0                    | <0.01                        | 0.02 - 0.15                            |
| Dicofol            | 1729                     | 0.5                    | <0.01                        | 0.03 - 1.07                            |
| Dieldrin           | 1729                     | 27.8                   | 0.03                         | 0.01 - 1.60                            |
| Endosulfan (I)     | 1729                     | 0.3                    | <0.01                        | 0.01 - 0.24                            |
| Endosulfan II      | 1729                     | 0.5                    | <0.01                        | 0.01 - 0.53                            |
| Endosulfan Sulfate | 1729                     | 0.6                    | <0.01                        | 0.01 - 0.94                            |
| Endrin             | 1729                     | 2.3                    | <0.01                        | 0.01 - 0.56                            |
| Endrin Aldehyde    | 1729                     | 0.1                    | <0.01                        | 0.03 - 0.03                            |
| Endrin Ketone      | 1729                     | 0.5                    | <0.01                        | 0.01 - 0.13                            |
| Ethion             | 66                       | 1.5                    | <0.01                        | 0.03 - 0.03                            |
| Heptachlor         | 1729                     | 3.9                    | <0.01                        | 0.01 - 0.97                            |
| Heptachlor Epoxide | 1729                     | 8.0                    | <0.01                        | 0.01 - 1.08                            |
| Isodrin            | 1729                     | 0.6                    | <0.01                        | 0.01 - 0.03                            |
| Lindane            | 1729                     | 0.9                    | <0.01                        | 0.01 - 0.35                            |
| Malathion          | 66                       | 3.0                    | 0.01                         | 0.04 - 0.36                            |
| Methoxychlor       | 1729                     | 0.1                    | <0.01                        | 0.28 - 0.28                            |
| Ethyl Parathion    | 66                       | 10.6                   | 0.06                         | 0.01 - 3.01                            |
| PCNB               | 1729                     | 0.1                    | <0.01                        | 0.69 - 0.69                            |
| op'TDE             | 1729                     | 2.8                    | 0.01                         | 0.01 - 4.52                            |
| pp'TDE             | 1729                     | 15.3                   | 0.05                         | 0.01 - 31.43                           |
| Toxaphene          | 1729                     | 4.2                    | 0.07                         | 0.10 - 11.72                           |
| Trifluralin        | 1729                     | 3.5                    | <0.01                        | 0.01 - 0.25                            |



TABLE 2. SUMMARY OF PESTICIDE RESIDUES IN NONCROPLAND SOIL FOR ALL STATES

| Pesticide Name     | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|--------------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Aldrin             | 199                      | 0.5                    | <0.01                        | 0.02 - 0.02                            |
| Arsenic            | 198                      | 98.5                   | 5.01                         | 0.33 - 54.17                           |
| Chlordane          | 199                      | 1.5                    | <0.01                        | 0.04 - 0.50                            |
| op'DDE             | 199                      | 0.5                    | <0.01                        | 0.02 - 0.02                            |
| pp'DDE             | 199                      | 13.6                   | 0.01                         | 0.01 - 0.31                            |
| op'DDT             | 199                      | 3.5                    | <0.01                        | 0.01 - 0.05                            |
| pp'DDT             | 199                      | 9.1                    | 0.01                         | 0.01 - 0.23                            |
| DDTR               | 199                      | 16.1                   | 0.01                         | 0.01 - 0.62                            |
| Dicofol            | 199                      | 1.0                    | <0.01                        | 0.10 - 0.29                            |
| Dieldrin           | 199                      | 4.0                    | <0.01                        | 0.01 - 0.09                            |
| Heptachlor Epoxide | 199                      | 1.0                    | <0.01                        | 0.01 - 0.01                            |
| pp'TDE             | 199                      | 3.0                    | <0.01                        | 0.01 - 0.18                            |
| Toxaphene          | 199                      | 0.5                    | <0.01                        | 0.52 - 0.52                            |



TABLE 3. ESTIMATED TONS OF DDTR, DIELDRIN AND ALDRIN IN CROPLAND SOIL WITH THE 95% CONFIDENCE INTERVALS

| Compound | Upper<br>Limit | Mean  | Lower<br>Limit |
|----------|----------------|-------|----------------|
| DDTR     | 11668          | 10565 | 9558           |
| Dieldrin | 4412           | 4180  | 3967           |
| Aldrin   | 3967           | 3889  | 3793           |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL

## ALABAMA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic            | 23                    | 100.0               | 6.11                   | 0.70 - 28.60                     |
| Chlordane          | 22                    | 13.6                | 0.04                   | 0.07 - 0.62                      |
| op'DDE             | 22                    | 4.6                 | <0.01                  | 0.01 - 0.01                      |
| pp'DDE             | 22                    | 86.4                | 0.17                   | 0.01 - 0.72                      |
| op'DDT             | 22                    | 72.7                | 0.09                   | 0.01 - 0.65                      |
| pp'DDT             | 22                    | 90.9                | 0.78                   | 0.02 - 6.60                      |
| DDTR               | 22                    | 90.9                | 1.13                   | 0.05 - 8.08                      |
| Dieldrin           | 22                    | 22.7                | 0.01                   | 0.01 - 0.14                      |
| Endrin             | 22                    | 9.1                 | <0.01                  | 0.03 - 0.05                      |
| Heptachlor         | 22                    | 9.1                 | <0.01                  | 0.01 - 0.01                      |
| Heptachlor Epoxide | 22                    | 13.6                | <0.01                  | 0.01 - 0.04                      |
| Lindane            | 22                    | 9.1                 | <0.01                  | 0.01 - 0.01                      |
| op'TDE             | 22                    | 4.6                 | <0.01                  | 0.08 - 0.08                      |
| ppTDE              | 22                    | 59.1                | 0.07                   | 0.01 - 0.73                      |
| Toxaphene          | 22                    | 27.3                | 0.69                   | 0.68 - 4.95                      |
| Trifluralin        | 22                    | 31.8                | 0.01                   | 0.01 - 0.08                      |

## ARIZONA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic            | 8                     | 100.0               | 6.58             | 2.82 - 9.97                |
| op'DDE             | 8                     | 50.0                | 0.02             | 0.01 - 0.07                |
| pp'DDE             | 8                     | 100.0               | 0.46             | 0.06 - 0.84                |
| op'DDT             | 8                     | 62.5                | 0.07             | 0.08 - 0.17                |
| pp'DDT             | 8                     | 87.5                | 0.20             | 0.03 - 0.57                |
| DDTR               | 8                     | 100.0               | 0.76             | 0.06 - 1.56                |
| Endosulfan (I)     | 8                     | 12.5                | 0.03             | 0.24 - 0.24                |
| Endosulfan II      | 8                     | 12.5                | 0.07             | 0.53 - 0.53                |
| Endosulfan Sulfate | 8                     | 12.5                | 0.04             | 0.29 - 0.29                |
| Endrin             | 8                     | 37.5                | 0.07             | 0.10 - 0.22                |
| Endrin Ketone      | 8                     | 25.0                | 0.01             | 0.01 - 0.07                |
| pp'TDE             | 8                     | 25.0                | 0.01             | 0.03 - 0.06                |
| Toxaphene          | 8                     | 75.0                | 1.09             | 0.57 - 4.27                |
| Trifluralin        | 8                     | 12.5                | 0.02             | 0.13 - 0.13                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## ARKANSAS

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|----------------|-----------------------|---------------------|------------------|----------------------------|
| Aldrin         | 47                    | 14.9                | <0.01            | 0.01 - 0.06                |
| Arsenic        | 47                    | 100.0               | 8.98             | 1.70 - 28.25               |
| op'DDE         | 47                    | 10.6                | 0.01             | 0.01 - 0.07                |
| pp'DDE         | 47                    | 68.1                | 0.24             | 0.01 - 2.81                |
| op'DDT         | 47                    | 46.8                | 0.07             | 0.01 - 1.11                |
| pp'DDT         | 47                    | 68.1                | 0.29             | 0.01 - 3.28                |
| DDTR           | 47                    | 72.3                | 0.67             | 0.03 - 7.20                |
| Dieldrin       | 47                    | 25.5                | 0.02             | 0.01 - 0.24                |
| Endrin         | 47                    | 10.6                | 0.01             | 0.01 - 0.29                |
| Endrin Ketone  | 47                    | 4.3                 | <0.01            | 0.10 - 0.13                |
| pp'TDE         | 47                    | 57.5                | 0.07             | 0.01 - 1.19                |
| Toxaphene      | 47                    | 17.0                | 0.27             | 0.32 - 3.40                |
| Trifluralin    | 47                    | 8.5                 | 0.01             | 0.01 - 0.20                |

## CALIFORNIA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Aldrin             | 65                    | 1.5                 | <0.01            | 0.03 - 0.03                |
| Arsenic            | 65                    | 100.0               | 5.15             | 0.74 - 23.67               |
| Carbophenothion    | 17                    | 5.9                 | 0.01             | 0.23 - 0.23                |
| Chlordane          | 65                    | 3.1                 | 0.01             | 0.10 - 0.32                |
| DAC                | 65                    | 1.5                 | 0.01             | 0.54 - 0.54                |
| op'DDE             | 65                    | 36.9                | 0.01             | 0.01 - 0.14                |
| pp'DDE             | 65                    | 84.6                | 0.37             | 0.01 - 5.93                |
| op'DDT             | 65                    | 49.2                | 0.08             | 0.01 - 1.33                |
| pp'DDT             | 65                    | 73.9                | 0.54             | 0.01 - 11.09               |
| DDTR               | 65                    | 84.6                | 1.47             | 0.01 - 41.81               |
| Diazinon           | 17                    | 5.9                 | <0.01            | 0.02 - 0.02                |
| Dicofol            | 65                    | 9.2                 | 0.02             | 0.03 - 1.07                |
| Dieldrin           | 65                    | 30.8                | 0.02             | 0.01 - 0.31                |
| Endosulfan (I)     | 65                    | 1.5                 | <0.01            | 0.01 - 0.01                |
| Endosulfan II      | 65                    | 7.7                 | <0.01            | 0.01 - 0.09                |
| Endosulfan Sulfate | 65                    | 7.7                 | 0.01             | 0.02 - 0.15                |
| Endrin             | 65                    | 13.9                | 0.01             | 0.01 - 0.16                |
| Heptachlor Epoxide | 65                    | 12.3                | <0.01            | 0.01 - 0.03                |
| Lindane            | 65                    | 3.1                 | <0.01            | 0.02 - 0.02                |
| Ethyl Parathion    | 17                    | 5.9                 | <0.01            | 0.02 - 0.02                |
| op'TDE             | 65                    | 20.0                | 0.09             | 0.01 - 4.52                |
| pp'TDE             | 65                    | 61.5                | 0.38             | 0.01 - 20.13               |
| Toxaphene          | 65                    | 15.4                | 0.16             | 0.16 - 2.07                |
| Trifluralin        | 65                    | 10.8                | <0.01            | 0.01 - 0.10                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## COLORADO

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin         | 60                    | 1.7                 | <0.01                  | 0.02 - 0.02                      |
| Arsenic        | 58                    | 100.0               | 4.60                   | 1.78 - 9.46                      |
| pp'DDE         | 60                    | 11.7                | 0.01                   | 0.01 - 0.17                      |
| op'DDT         | 60                    | 3.3                 | <0.01                  | 0.01 - 0.03                      |
| pp'DDT         | 60                    | 8.3                 | 0.01                   | 0.01 - 0.22                      |
| DDTR           | 60                    | 13.3                | 0.01                   | 0.01 - 0.42                      |
| Dieldrin       | 60                    | 8.3                 | 0.01                   | 0.01 - 0.61                      |
| Endrin         | 60                    | 5.0                 | <0.01                  | 0.01 - 0.02                      |
| Endrin Ketone  | 60                    | 1.7                 | <0.01                  | 0.05 - 0.05                      |
| pp'TDE         | 60                    | 1.7                 | <0.01                  | 0.01 - 0.01                      |

## CONNECTICUT

| Pesticide Name | No. of Pest. Analyses | Pct. of Time Found | Mean Pest. Level | Range of Detected Residue |
|----------------|-----------------------|--------------------|------------------|---------------------------|
| Arsenic        | 2                     | 100.0              | 3.96             | 2.33 - 5.59               |
| pp'DDE         | 2                     | 50.0               | 0.01             | 0.01 - 0.01               |
| pp'DDT         | 2                     | 50.0               | 0.03             | 0.05 - 0.05               |
| DDTR           | 2                     | 50.0               | 0.03             | 0.06 - 0.06               |
| Dieldrin       | 2                     | 50.0               | 0.01             | 0.01 - 0.01               |

## DELAWARE

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residue |
|----------------|-----------------------|---------------------|------------------|---------------------------|
| Arsenic        | 3                     | 100.0               | 2.97             | 0.95 - 5.88               |
| pp'DDE         | 3                     | 33.3                | <0.01            | 0.01 - 0.01               |
| DDTR           | 3                     | 33.3                | <0.01            | 0.01 - 0.01               |
| Dieldrin       | 3                     | 33.3                | <0.01            | 0.01 - 0.01               |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## FLORIDA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 18                    | 5.6                 | 0.03                   | 0.47 - 0.47                      |
| Arsenic            | 18                    | 88.9                | 0.77                   | 0.25 - 3.08                      |
| Chlordane          | 18                    | 50.0                | 0.36                   | 0.04 - 3.32                      |
| op'DDE             | 18                    | 11.1                | 0.01                   | 0.03 - 0.06                      |
| pp'DDE             | 18                    | 72.2                | 0.25                   | 0.01 - 2.40                      |
| op'DDT             | 18                    | 50.0                | 0.10                   | 0.01 - 0.98                      |
| pp'DDT             | 18                    | 77.8                | 0.37                   | 0.01 - 2.08                      |
| DDTR               | 18                    | 77.8                | 0.85                   | 0.01 - 5.03                      |
| Diazinon           | 5                     | 20.0                | 0.03                   | 0.15 - 0.15                      |
| Dieldrin           | 18                    | 38.9                | 0.08                   | 0.01 - 0.52                      |
| Endrin             | 18                    | 11.1                | 0.03                   | 0.13 - 0.38                      |
| Endrin Aldehyde    | 18                    | 5.6                 | <0.01                  | 0.03 - 0.03                      |
| Endrin Ketone      | 18                    | 5.6                 | <0.01                  | 0.03 - 0.03                      |
| Ethion             | 5                     | 20.0                | 0.01                   | 0.03 - 0.03                      |
| Heptachlor         | 18                    | 5.6                 | <0.01                  | 0.05 - 0.05                      |
| Heptachlor Epoxide | 18                    | 16.7                | 0.01                   | 0.01 - 0.07                      |
| Ethyl Parathion    | 5                     | 40.0                | 0.60                   | 0.01 - 3.01                      |
| op'TDE             | 18                    | 5.6                 | 0.02                   | 0.34 - 0.34                      |
| pp'TDE             | 18                    | 61.1                | 0.11                   | 0.01 - 0.64                      |
| Toxaphene          | 18                    | 11.1                | 0.08                   | 0.62 - 0.77                      |
| Trifluralin        | 18                    | 5.6                 | <0.01                  | 0.03 - 0.03                      |

## GEORGIA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic            | 29                    | 100.0               | 2.61             | 0.37 - 10.72               |
| Chlordane          | 22                    | 4.6                 | 0.01             | 0.19 - 0.19                |
| 2,4-D              | 3                     | 33.3                | <0.01            | 0.01 - 0.01                |
| op'DDE             | 22                    | 22.7                | 0.01             | 0.01 - 0.08                |
| pp'DDE             | 22                    | 90.9                | 0.18             | 0.01 - 1.04                |
| op'DDT             | 22                    | 59.1                | 0.09             | 0.01 - 0.73                |
| pp'DDT             | 22                    | 81.8                | 0.56             | 0.01 - 4.64                |
| DDTR               | 22                    | 95.5                | 0.96             | 0.01 - 6.31                |
| DEF                | 22                    | 4.6                 | 0.01             | 0.12 - 0.12                |
| Dieldrin           | 22                    | 18.2                | <0.01            | 0.01 - 0.03                |
| Endrin             | 22                    | 4.6                 | 0.02             | 0.42 - 0.42                |
| Heptachlor Epoxide | 22                    | 4.6                 | <0.01            | 0.02 - 0.02                |
| PCNB               | 22                    | 4.6                 | 0.03             | 0.69 - 0.69                |
| op'TDE             | 22                    | 4.6                 | 0.02             | 0.34 - 0.34                |
| pp'TDE             | 22                    | 68.2                | 0.10             | 0.01 - 1.23                |
| Toxaphene          | 22                    | 36.4                | 0.60             | 0.43 - 5.63                |
| Trifluralin        | 22                    | 13.6                | <0.01            | 0.02 - 0.04                |



TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## IDAHO

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic            | 33                    | 97.0                | 3.22                   | 0.47 - 8.58                      |
| Chlordane          | 33                    | 6.1                 | <0.01                  | 0.03 - 0.07                      |
| pp'DDE             | 33                    | 24.2                | 0.01                   | 0.01 - 0.09                      |
| op'DDT             | 33                    | 18.2                | 0.01                   | 0.01 - 0.13                      |
| pp'DDT             | 33                    | 24.2                | 0.04                   | 0.01 - 0.67                      |
| DDTR               | 33                    | 24.2                | 0.07                   | 0.02 - 1.03                      |
| Dieldrin           | 33                    | 9.1                 | 0.01                   | 0.03 - 0.11                      |
| Heptachlor Epoxide | 33                    | 3.0                 | <0.01                  | 0.01 - 0.01                      |
| op'TDE             | 33                    | 9.1                 | <0.01                  | 0.01 - 0.01                      |
| pp'TDE             | 33                    | 18.2                | 0.01                   | 0.01 - 0.15                      |
| Trifluralin        | 33                    | 6.1                 | 0.01                   | 0.01 - 0.24                      |

## ILLINOIS

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Aldrin             | 142                   | 42.3                | 0.13             | 0.01 - 2.24                |
| Arsenic            | 142                   | 100.0               | 8.05             | 1.54 - 33.40               |
| Atrazine           | 43                    | 4.7                 | <0.01            | 0.02 - 0.10                |
| Chlordane          | 142                   | 25.4                | 0.23             | 0.02 - 5.20                |
| pp'DDE             | 142                   | 11.3                | <0.01            | 0.01 - 0.05                |
| op'DDT             | 142                   | 2.8                 | <0.01            | 0.01 - 0.02                |
| pp'DDT             | 142                   | 8.5                 | <0.01            | 0.01 - 0.06                |
| DDTR               | 142                   | 11.3                | 0.01             | 0.01 - 0.29                |
| Dieldrin           | 142                   | 61.3                | 0.11             | 0.01 - 1.42                |
| Heptachlor         | 142                   | 21.8                | 0.03             | 0.01 - 0.59                |
| Heptachlor Epoxide | 142                   | 25.4                | 0.02             | 0.01 - 1.08                |
| Isodrin            | 142                   | 1.4                 | <0.01            | 0.02 - 0.02                |
| op'TDE             | 142                   | 0.7                 | <0.01            | 0.06 - 0.06                |
| pp'TDE             | 142                   | 3.5                 | <0.01            | 0.01 - 0.16                |
| Trifluralin        | 142                   | 1.4                 | <0.01            | 0.05 - 0.16                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## INDIANA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 78                    | 16.7                | 0.07                   | 0.01 - 3.06                      |
| Arsenic            | 78                    | 100.0               | 7.88                   | 1.28 - 19.65                     |
| Chlordane          | 78                    | 5.1                 | 0.02                   | 0.07 - 0.53                      |
| pp'DDE             | 78                    | 1.3                 | <0.01                  | 0.03 - 0.03                      |
| op'DDT             | 78                    | 2.6                 | <0.01                  | 0.01 - 0.03                      |
| pp'DDT             | 78                    | 2.6                 | <0.01                  | 0.02 - 0.09                      |
| DDTR               | 78                    | 2.6                 | <0.01                  | 0.06 - 0.14                      |
| Dieldrin           | 78                    | 26.9                | 0.03                   | 0.01 - 0.58                      |
| Heptachlor         | 78                    | 2.6                 | <0.01                  | 0.02 - 0.08                      |
| Heptachlor Epoxide | 78                    | 1.3                 | <0.01                  | 0.02 - 0.02                      |
| Isodrin            | 78                    | 1.3                 | <0.01                  | 0.03 - 0.03                      |
| pp'TDE             | 78                    | 2.6                 | <0.01                  | 0.01 - 0.01                      |
| Trifluralin        | 78                    | 1.3                 | <0.01                  | 0.03 - 0.03                      |

## IOWA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 151                   | 31.8                | 0.04                   | 0.01 - 1.37                      |
| Arsenic            | 152                   | 100.0               | 7.51                   | 0.86 - 107.45                    |
| Atrazine           | 48                    | 27.1                | 0.05                   | 0.01 - 1.55                      |
| Chlordane          | 151                   | 21.2                | 0.13                   | 0.04 - 6.30                      |
| pp'DDE             | 151                   | 13.9                | 0.01                   | 0.01 - 0.18                      |
| op'DDT             | 151                   | 4.0                 | <0.01                  | 0.01 - 0.05                      |
| pp'DDT             | 151                   | 15.2                | 0.01                   | 0.01 - 0.34                      |
| DDTR               | 151                   | 16.6                | 0.03                   | 0.01 - 0.60                      |
| Dieldrin           | 151                   | 53.6                | 0.06                   | 0.01 - 0.42                      |
| Heptachlor         | 151                   | 9.3                 | 0.02                   | 0.01 - 0.97                      |
| Heptachlor Epoxide | 151                   | 20.5                | 0.01                   | 0.01 - 0.33                      |
| Isodrin            | 151                   | 1.3                 | <0.01                  | 0.01 - 0.02                      |
| op'TDE             | 151                   | 0.7                 | <0.01                  | 0.10 - 0.10                      |
| pp'TDE             | 151                   | 5.3                 | <0.01                  | 0.01 - 0.50                      |
| Trifluralin        | 151                   | 3.3                 | <0.01                  | 0.02 - 0.08                      |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## KENTUCKY

| Pesticide Name     | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|--------------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Aldrin             | 31                       | 25.8                   | 0.03                         | 0.01 - 0.42                            |
| Arsenic            | 31                       | 100.0                  | 8.41                         | 2.60 - 12.80                           |
| Chlordane          | 31                       | 12.9                   | 0.02                         | 0.06 - 0.27                            |
| op'DDE             | 31                       | 3.2                    | <0.01                        | 0.03 - 0.03                            |
| pp'DDE             | 31                       | 16.1                   | 0.01                         | 0.01 - 0.17                            |
| op'DDT             | 31                       | 9.7                    | 0.02                         | 0.01 - 0.34                            |
| pp'DDT             | 31                       | 19.4                   | 0.04                         | 0.02 - 1.00                            |
| DDTR               | 31                       | 19.4                   | 0.08                         | 0.03 - 1.84                            |
| Dieldrin           | 31                       | 54.8                   | 0.06                         | 0.01 - 0.65                            |
| Heptachlor         | 31                       | 6.5                    | <0.01                        | 0.01 - 0.01                            |
| Heptachlor Epoxide | 31                       | 3.2                    | <0.01                        | 0.02 - 0.02                            |
| Isodrin            | 31                       | 6.5                    | <0.01                        | 0.01 - 0.01                            |
| op'TDE             | 31                       | 3.2                    | <0.01                        | 0.02 - 0.02                            |
| pp'TDE             | 31                       | 12.9                   | 0.01                         | 0.02 - 0.28                            |

## LOUISIANA

| Pesticide Name | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level | Range of<br>Detected Residues |
|----------------|--------------------------|------------------------|---------------------|-------------------------------|
| Aldrin         | 27                       | 18.5                   | <0.01               | 0.01 - 0.02                   |
| Arsenic        | 27                       | 96.3                   | 2.15                | 0.26 - 6.34                   |
| Chlordane      | 27                       | 3.7                    | <0.01               | 0.11 - 0.11                   |
| op'DDE         | 27                       | 7.4                    | <0.01               | 0.04 - 0.05                   |
| pp'DDE         | 27                       | 44.4                   | 0.19                | 0.01 - 2.55                   |
| op'DDT         | 27                       | 33.3                   | 0.10                | 0.02 - 1.45                   |
| pp'DDT         | 27                       | 48.2                   | 0.61                | 0.02 - 7.17                   |
| DDTR           | 27                       | 48.2                   | 0.99                | 0.03 - 10.99                  |
| Dieldrin       | 27                       | 37.0                   | 0.02                | 0.01 - 0.13                   |
| Endrin         | 27                       | 3.7                    | <0.01               | 0.06 - 0.06                   |
| Endrin Ketone  | 27                       | 3.7                    | <0.01               | 0.02 - 0.02                   |
| pp'TDE         | 27                       | 33.3                   | 0.08                | 0.02 - 1.63                   |
| Toxaphene      | 27                       | 14.8                   | 0.57                | 0.59 - 11.72                  |
| Trifluralin    | 27                       | 3.7                    | <0.01               | 0.07 - 0.07                   |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## MAINE

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------|----------------------------------|
| Arsenic            | 8                     | 100.0               | 16.01            | 5.06 - 44.06                     |
| Chlordane          | 8                     | 12.5                | 0.02             | 0.12 - 0.12                      |
| pp'DDE             | 8                     | 75.0                | 0.12             | 0.02 - 0.36                      |
| op'DDT             | 8                     | 62.5                | 0.13             | 0.02 - 0.46                      |
| pp'DDT             | 8                     | 75.0                | 0.54             | 0.04 - 1.87                      |
| DDTR               | 8                     | 75.0                | 0.85             | 0.08 - 2.86                      |
| Endrin             | 8                     | 12.5                | 0.02             | 0.15 - 0.15                      |
| Heptachlor         | 8                     | 12.5                | <0.01            | 0.01 - 0.01                      |
| Heptachlor Epoxide | 8                     | 12.5                | <0.01            | 0.01 - 0.01                      |
| pp'TDE             | 8                     | 75.0                | 0.06             | 0.01 - 0.19                      |

## MARYLAND

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues' |
|--------------------|-----------------------|---------------------|------------------|-----------------------------|
| Arsenic            | 12                    | 100.0               | 5.69             | 3.40 - 11.90                |
| Chlordane          | 12                    | 8.3                 | 0.01             | 0.09 - 0.09                 |
| pp'DDE             | 12                    | 16.7                | <0.01            | 0.02 - 0.02                 |
| pp'DDT             | 12                    | 8.3                 | <0.01            | 0.03 - 0.03                 |
| DDTR               | 12                    | 16.7                | 0.01             | 0.02 - 0.05                 |
| Dieldrin           | 12                    | 8.3                 | 0.01             | 0.06 - 0.06                 |
| Heptachlor Epoxide | 12                    | 8.3                 | <0.01            | 0.02 - 0.02                 |

## MASSACHUSETTS

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|----------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic        | 2                     | 100.0               | 9.75             | 7.35 - 12.15               |
| pp'DDE         | 2                     | 50.0                | 0.17             | 0.34 - 0.34                |
| op'DDT         | 2                     | 50.0                | 0.10             | 0.20 - 0.20                |
| pp'DDT         | 2                     | 50.0                | 0.49             | 0.97 - 0.97                |
| UDTR           | 2                     | 50.0                | 0.78             | 1.55 - 1.55                |
| pp'TDE         | 2                     | 50.0                | 0.02             | 0.04 - 0.04                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## MICHIGAN

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 51                    | 3.9                 | <0.01                  | 0.01 - 0.10                      |
| Arsenic            | 52                    | 100.0               | 4.85                   | 0.13 - 11.94                     |
| Atrazine           | 13                    | 7.7                 | 0.01                   | 0.18 - 0.18                      |
| op'DDE             | 51                    | 7.8                 | <0.01                  | 0.01 - 0.14                      |
| pp'DDE             | 51                    | 23.5                | 0.16                   | 0.01 - 4.58                      |
| op'DDT             | 51                    | 5.9                 | 0.18                   | 0.15 - 6.29                      |
| pp'DDT             | 51                    | 9.8                 | 1.10                   | 0.01 - 35.92                     |
| DDTR               | 51                    | 23.5                | 2.09                   | 0.01 - 78.36                     |
| Dieldrin           | 51                    | 21.6                | 0.05                   | 0.01 - 1.01                      |
| Endosulfan (I)     | 51                    | 3.9                 | 0.01                   | 0.03 - 0.24                      |
| Endosulfan Sulfate | 51                    | 3.9                 | 0.02                   | 0.25 - 0.94                      |
| Endrin             | 51                    | 2.0                 | <0.01                  | 0.01 - 0.01                      |
| pp'TDE             | 51                    | 9.8                 | 0.65                   | 0.02 - 31.43                     |

## MISSISSIPPI

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|----------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic        | 30                    | 100.0               | 5.70             | 1.10 - 16.90               |
| op'DDE         | 29                    | 31.0                | 0.01             | 0.01 - 0.08                |
| pp'DDE         | 29                    | 89.7                | 0.31             | 0.01 - 1.43                |
| op'DDT         | 29                    | 75.9                | 0.20             | 0.02 - 1.35                |
| pp'DDT         | 29                    | 89.7                | 1.36             | 0.01 - 9.28                |
| DDTR           | 29                    | 89.7                | 2.06             | 0.03 - 13.14               |
| Dieldrin       | 29                    | 34.5                | 0.01             | 0.02 - 0.10                |
| Endrin         | 29                    | 3.5                 | 0.01             | 0.19 - 0.19                |
| Endrin Ketone  | 29                    | 3.5                 | <0.01            | 0.11 - 0.11                |
| Lindane        | 29                    | 6.9                 | <0.01            | 0.01 - 0.04                |
| op'TDE         | 29                    | 6.9                 | 0.03             | 0.33 - 0.49                |
| pp'TDE         | 29                    | 69.0                | 0.15             | 0.01 - 0.81                |
| Toxaphene      | 29                    | 48.3                | 0.78             | 0.10 - 8.80                |
| Trifluralin    | 29                    | 20.7                | 0.02             | 0.02 - 0.25                |



TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## MISSOURI

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 82                    | 22.0                | 0.05                   | 0.01 - 1.59                      |
| Arsenic            | 81                    | 98.8                | 5.99                   | 0.49 - 24.51                     |
| Chlordane          | 82                    | 7.3                 | 0.03                   | 0.17 - 0.60                      |
| pp'DDE             | 82                    | 3.7                 | <0.01                  | 0.01 - 0.01                      |
| op'DDT             | 82                    | 2.4                 | <0.01                  | 0.01 - 0.02                      |
| pp'DDT             | 82                    | 3.7                 | <0.01                  | 0.02 - 0.09                      |
| DDTR               | 82                    | 3.7                 | <0.01                  | 0.03 - 0.12                      |
| Dieldrin           | 82                    | 31.7                | 0.04                   | 0.01 - 0.55                      |
| Endrin             | 82                    | 1.2                 | <0.01                  | 0.01 - 0.01                      |
| Heptachlor         | 82                    | 6.1                 | <0.01                  | 0.01 - 0.04                      |
| Heptachlor Epoxide | 82                    | 6.1                 | <0.01                  | 0.01 - 0.06                      |
| Isodrin            | 82                    | 1.2                 | <0.01                  | 0.03 - 0.03                      |
| Toxaphene          | 82                    | 1.2                 | 0.04                   | 3.15 - 3.15                      |
| Trifluralin        | 82                    | 6.1                 | <0.01                  | 0.02 - 0.10                      |

## NEBRASKA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Aldrin             | 106                   | 1.9                 | <0.01            | 0.01 - 0.01                |
| Arsenic            | 106                   | 100.0               | 5.81             | 0.33 - 15.80               |
| Atrazine           | 72                    | 16.7                | <0.01            | 0.01 - 0.12                |
| Chlordane          | 106                   | 10.4                | 0.01             | 0.03 - 0.18                |
| pp'DDE             | 106                   | 13.2                | 0.01             | 0.01 - 0.10                |
| op'DDT             | 106                   | 5.7                 | 0.01             | 0.01 - 0.08                |
| pp'DDT             | 106                   | 11.3                | 0.01             | 0.01 - 0.19                |
| DDTR               | 106                   | 15.1                | 0.01             | 0.02 - 0.31                |
| Dicofol            | 106                   | 1.9                 | <0.01            | 0.10 - 0.10                |
| Dieldrin           | 106                   | 34.9                | 0.02             | 0.01 - 0.19                |
| Endrin             | 106                   | 0.9                 | <0.01            | 0.02 - 0.02                |
| Heptachlor         | 106                   | 0.9                 | <0.01            | 0.01 - 0.01                |
| Heptachlor Epoxide | 106                   | 11.3                | <0.01            | 0.01 - 0.03                |
| Malathion          | 2                     | 50.0                | 0.18             | 0.36 - 0.36                |
| pp'TDE             | 106                   | 3.8                 | <0.01            | 0.01 - 0.05                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## NEVADA

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 2                     | 100.0               | 2.32                   | 1.77 - 2.86                      |

## NEW HAMPSHIRE

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|----------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic        | 2                     | 100.0               | 5.35             | 1.31 - 9.38                |
| pp'DDE         | 2                     | 50.0                | 0.02             | 0.03 - 0.03                |
| DDTR           | 2                     | 50.0                | 0.02             | 0.03 - 0.03                |

## NEW JERSEY

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic            | 5                     | 100.0               | 11.72            | 4.55 - 17.21               |
| op'DDE             | 5                     | 20.0                | <0.01            | 0.02 - 0.02                |
| pp'DDE             | 5                     | 40.0                | 0.17             | 0.18 - 0.66                |
| op'DDT             | 5                     | 20.0                | 0.06             | 0.28 - 0.28                |
| pp'DDT             | 5                     | 40.0                | 0.24             | 0.05 - 1.17                |
| DDTR               | 5                     | 40.0                | 0.55             | 0.26 - 2.48                |
| Dieldrin           | 5                     | 40.0                | 0.05             | 0.05 - 0.21                |
| Endosulfan II      | 5                     | 20.0                | <0.01            | 0.02 - 0.02                |
| Endosulfan Sulfate | 5                     | 20.0                | 0.02             | 0.11 - 0.11                |
| Heptachlor Epoxide | 5                     | 20.0                | <0.01            | 0.01 - 0.01                |
| Lindane            | 5                     | 20.0                | 0.01             | 0.03 - 0.03                |
| Ethyl Parathion    | 1                     | 100.0               | 0.02             | 0.02 - 0.02                |
| op'TDE             | 5                     | 20.0                | 0.02             | 0.09 - 0.09                |
| pp'TDE             | 5                     | 40.0                | 0.06             | 0.03 - 0.26                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## NEW MEXICO

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 10                    | 100.0               | 4.64                   | 0.66 - 15.82                     |
| pp'DDE         | 10                    | 40.0                | 0.02                   | 0.01 - 0.11                      |
| op'DDT         | 10                    | 10.0                | <0.01                  | 0.01 - 0.01                      |
| pp'DDT         | 10                    | 40.0                | 0.01                   | 0.01 - 0.03                      |
| DDTR           | 10                    | 40.0                | 0.02                   | 0.02 - 0.15                      |
| Dieldrin       | 10                    | 10.0                | <0.01                  | 0.01 - 0.01                      |

## NEW YORK

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|----------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic        | 37                    | 94.6                | 9.38             | 1.24 - 43.90               |
| Chlordane      | 38                    | 2.6                 | 0.08             | 3.19 - 3.19                |
| op'DDE         | 38                    | 7.9                 | <0.01            | 0.01 - 0.06                |
| pp'DDE         | 38                    | 39.5                | 0.23             | 0.01 - 3.70                |
| op'DDT         | 38                    | 29.0                | 0.07             | 0.01 - 1.45                |
| pp'DDT         | 38                    | 34.2                | 0.53             | 0.02 - 7.67                |
| DDTR           | 38                    | 39.5                | 0.91             | 0.01 - 13.29               |
| Dieldrin       | 38                    | 34.2                | 0.05             | 0.01 - 0.96                |
| Endrin         | 38                    | 2.6                 | 0.01             | 0.56 - 0.56                |
| Endrin Ketone  | 38                    | 2.6                 | <0.01            | 0.05 - 0.05                |
| Lindane        | 38                    | 7.9                 | 0.01             | 0.01 - 0.23                |
| Methoxychlor   | 38                    | 2.6                 | 0.01             | 0.28 - 0.28                |
| op'TDE         | 38                    | 5.3                 | 0.01             | 0.06 - 0.37                |
| pp'TDE         | 38                    | 26.3                | 0.07             | 0.01 - 1.49                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## NORTH CAROLINA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 31                    | 9.7                 | 0.05                   | 0.01 - 1.12                      |
| Arsenic            | 27                    | 100.0               | 6.18                   | 0.73 - 22.00                     |
| Chlordane          | 31                    | 3.2                 | <0.01                  | 0.11 - 0.11                      |
| op'DDE             | 31                    | 19.4                | <0.01                  | 0.01 - 0.03                      |
| pp'DDE             | 31                    | 71.0                | 0.08                   | 0.01 - 0.44                      |
| op'DDT             | 31                    | 45.2                | 0.07                   | 0.03 - 0.83                      |
| pp'DDT             | 31                    | 61.3                | 0.28                   | 0.01 - 1.75                      |
| DDTR               | 31                    | 71.0                | 0.53                   | 0.02 - 2.88                      |
| Dieldrin           | 31                    | 32.3                | 0.08                   | 0.01 - 1.53                      |
| Endrin             | 31                    | 6.5                 | <0.01                  | 0.01 - 0.08                      |
| Heptachlor         | 31                    | 6.5                 | <0.01                  | 0.01 - 0.02                      |
| Heptachlor Epoxide | 31                    | 12.9                | <0.01                  | 0.01 - 0.03                      |
| Isodrin            | 31                    | 3.2                 | <0.01                  | 0.01 - 0.01                      |
| Ethyl Parathion    | 6                     | 16.7                | <0.01                  | 0.02 - 0.02                      |
| op'TDE             | 31                    | 35.5                | 0.03                   | 0.03 - 0.17                      |
| pp'TDE             | 31                    | 61.3                | 0.07                   | 0.01 - 0.27                      |
| Toxaphene          | 31                    | 22.6                | 0.28                   | 0.34 - 3.20                      |
| Trifluralin        | 31                    | 6.5                 | <0.01                  | 0.03 - 0.11                      |

## NORTH DAKOTA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Aldrin             | 157                   | 0.6                 | <0.01            | 0.03 - 0.03                |
| Arsenic            | 158                   | 100.0               | 8.50             | 0.98 - 37.53               |
| Chlordane          | 157                   | 1.9                 | <0.01            | 0.08 - 0.15                |
| pp'DDE             | 157                   | 6.4                 | <0.01            | 0.01 - 0.14                |
| op'DDT             | 157                   | 3.2                 | <0.01            | 0.01 - 0.19                |
| pp'DDT             | 157                   | 5.1                 | 0.01             | 0.01 - 0.56                |
| DDTR               | 157                   | 6.4                 | 0.01             | 0.01 - 0.95                |
| Dieldrin           | 157                   | 7.6                 | <0.01            | 0.01 - 0.20                |
| Endrin             | 157                   | 0.6                 | <0.01            | 0.01 - 0.01                |
| Heptachlor Epoxide | 157                   | 1.9                 | <0.01            | 0.02 - 0.07                |
| pp'TDE             | 157                   | 4.5                 | <0.01            | 0.01 - 0.06                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## OHIO

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 68                    | 14.7                | 0.03                   | 0.01 - 0.74                      |
| Arsenic            | 69                    | 100.0               | 11.23                  | 1.15 - 41.49                     |
| Chlordane          | 68                    | 4.4                 | 0.01                   | 0.01 - 0.71                      |
| op'DDE             | 68                    | 1.5                 | <0.01                  | 0.20 - 0.20                      |
| pp'DDE             | 68                    | 16.2                | 0.03                   | 0.01 - 1.77                      |
| op'DDT             | 68                    | 2.9                 | 0.01                   | 0.19 - 0.22                      |
| pp'DDT             | 68                    | 8.8                 | 0.04                   | 0.01 - 1.27                      |
| DDTR               | 68                    | 16.2                | 0.08                   | 0.01 - 3.38                      |
| Dieldrin           | 68                    | 27.9                | 0.02                   | 0.01 - 0.30                      |
| Endosulfan (I)     | 68                    | 1.5                 | <0.01                  | 0.07 - 0.07                      |
| Endosulfan II      | 68                    | 1.5                 | <0.01                  | 0.29 - 0.29                      |
| Endosulfan Sulfate | 68                    | 1.5                 | 0.01                   | 0.40 - 0.40                      |
| Heptachlor         | 68                    | 2.9                 | <0.01                  | 0.01 - 0.01                      |
| Heptachlor Epoxide | 68                    | 1.5                 | <0.01                  | 0.01 - 0.01                      |
| Isodrin            | 68                    | 2.9                 | <0.01                  | 0.01 - 0.03                      |
| Lindane            | 68                    | 1.5                 | 0.01                   | 0.35 - 0.35                      |
| pp'TDE             | 68                    | 4.4                 | <0.01                  | 0.04 - 0.12                      |
| Trifluralin        | 68                    | 1.5                 | <0.01                  | 0.06 - 0.06                      |

## OKLAHOMA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic            | 62                    | 96.8                | 3.30             | 0.24 - 14.58               |
| Chlordane          | 64                    | 1.6                 | <0.01            | 0.07 - 0.07                |
| pp'DDE             | 64                    | 15.6                | <0.01            | 0.01 - 0.09                |
| op'DDT             | 64                    | 1.6                 | <0.01            | 0.01 - 0.01                |
| pp'DDT             | 64                    | 14.1                | <0.01            | 0.01 - 0.09                |
| DDTR               | 64                    | 15.6                | 0.01             | 0.02 - 0.17                |
| Dieldrin           | 64                    | 3.1                 | <0.01            | 0.01 - 0.01                |
| Heptachlor Epoxide | 64                    | 1.6                 | <0.01            | 0.01 - 0.01                |
| pp'TDE             | 64                    | 3.1                 | <0.01            | 0.01 - 0.02                |
| Trifluralin        | 64                    | 1.6                 | <0.01            | 0.03 - 0.03                |



TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## PENNSYLVANIA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic            | 29                    | 100.0               | 10.80                  | 2.96 - 64.94                     |
| Chlordane          | 29                    | 20.7                | 0.07                   | 0.02 - 0.92                      |
| op'DDE             | 29                    | 3.5                 | <0.01                  | 0.08 - 0.08                      |
| pp'DDE             | 29                    | 31.0                | 0.07                   | 0.01 - 1.52                      |
| op'DDT             | 29                    | 17.2                | 0.03                   | 0.01 - 0.67                      |
| pp'DDT             | 29                    | 27.6                | 0.12                   | 0.01 - 2.99                      |
| DDTR               | 29                    | 37.9                | 0.27                   | 0.01 - 5.50                      |
| Dicofol            | 29                    | 3.5                 | 0.02                   | 0.53 - 0.53                      |
| Dieldrin           | 29                    | 34.5                | 0.02                   | 0.01 - 0.14                      |
| Endosulfan II      | 29                    | 3.5                 | <0.01                  | 0.02 - 0.02                      |
| Endosulfan Sulfate | 29                    | 3.5                 | <0.01                  | 0.01 - 0.01                      |
| Heptachlor Epoxide | 29                    | 13.8                | <0.01                  | 0.01 - 0.03                      |
| Ethyl Parathion    | 3                     | 33.3                | <0.01                  | 0.01 - 0.01                      |
| op'TDE             | 29                    | 13.8                | 0.01                   | 0.03 - 0.20                      |
| pp'TDE             | 29                    | 24.1                | 0.04                   | 0.01 - 0.55                      |
| Trifluralin        | 29                    | 6.9                 | <0.01                  | 0.01 - 0.07                      |

## RHODE ISLAND

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|----------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic        | 1                     | 100.0               | 21.30            | 21.30 - 21.30              |
| pp'DDE         | 1                     | 100.0               | 0.23             | 0.23 - 0.23                |
| op'DDT         | 1                     | 100.0               | 0.25             | 0.25 - 0.25                |
| pp'DDT         | 1                     | 100.0               | 2.46             | 2.46 - 2.46                |
| DDTR           | 1                     | 100.0               | 3.00             | 3.00 - 3.00                |
| Dieldrin       | 1                     | 100.0               | 0.11             | 0.11 - 0.11                |
| pp'TDE         | 1                     | 100.0               | 0.06             | 0.06 - 0.06                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## SOUTH CAROLINA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin             | 17                    | 5.9                 | 0.01                   | 0.14 - 0.14                      |
| Arsenic            | 17                    | 100.0               | 3.28                   | 0.53 - 19.54                     |
| 2,4-D              | 2                     | 50.0                | 0.02                   | 0.03 - 0.03                      |
| op'DDE             | 17                    | 41.2                | 0.01                   | 0.01 - 0.05                      |
| pp'DDE             | 17                    | 82.4                | 0.24                   | 0.01 - 0.93                      |
| op'DDT             | 17                    | 70.6                | 0.15                   | 0.01 - 0.95                      |
| pp'DDT             | 17                    | 64.7                | 0.64                   | 0.12 - 3.15                      |
| DDTR               | 17                    | 88.2                | 1.17                   | 0.01 - 4.78                      |
| Dieldrin           | 17                    | 17.7                | 0.04                   | 0.02 - 0.56                      |
| Endrin             | 17                    | 17.7                | <0.01                  | 0.01 - 0.05                      |
| Heptachlor Epoxide | 17                    | 17.7                | <0.01                  | 0.01 - 0.01                      |
| Lindane            | 17                    | 5.9                 | <0.01                  | 0.01 - 0.01                      |
| op'TDE             | 17                    | 29.4                | 0.03                   | 0.03 - 0.19                      |
| pp'TDE             | 17                    | 82.4                | 0.10                   | 0.01 - 0.34                      |
| Toxaphene          | 17                    | 5.9                 | 0.10                   | 1.74 - 1.74                      |
| Trifluralin        | 17                    | 29.4                | 0.01                   | 0.01 - 0.08                      |

## SOUTH DAKOTA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic            | 101                   | 100.0               | 5.80             | 0.47 - 34.54               |
| Chlordane          | 106                   | 2.8                 | 0.01             | 0.10 - 0.66                |
| pp'DDE             | 106                   | 1.9                 | <0.01            | 0.01 - 0.03                |
| op'DDT             | 106                   | 1.9                 | <0.01            | 0.01 - 0.03                |
| pp'DDT             | 106                   | 1.9                 | <0.01            | 0.02 - 0.04                |
| DDTR               | 106                   | 3.8                 | <0.01            | 0.01 - 0.10                |
| Dieldrin           | 106                   | 8.5                 | 0.01             | 0.01 - 0.25                |
| Heptachlor         | 106                   | 0.9                 | <0.01            | 0.01 - 0.01                |
| Heptachlor Epoxide | 106                   | 2.8                 | <0.01            | 0.01 - 0.03                |
| Lindane            | 106                   | 2.8                 | <0.01            | 0.01 - 0.02                |
| pp'TDE             | 106                   | 0.9                 | <0.01            | 0.02 - 0.02                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## TENNESSEE

| Pesticide Name | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|----------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Arsenic        | 27                       | 100.0                  | 8.05                         | 2.31 - 15.63                           |
| Chlordane      | 27                       | 3.7                    | 0.01                         | 0.20 - 0.20                            |
| pp'DDE         | 27                       | 37.0                   | 0.02                         | 0.01 - 0.26                            |
| op'DDT         | 27                       | 25.9                   | 0.01                         | 0.01 - 0.08                            |
| pp'DDT         | 27                       | 37.0                   | 0.05                         | 0.01 - 0.38                            |
| DDTR           | 27                       | 40.7                   | 0.11                         | 0.01 - 0.70                            |
| Dieldrin       | 27                       | 22.2                   | <0.01                        | 0.01 - 0.03                            |
| Endrin         | 27                       | 3.7                    | <0.01                        | 0.02 - 0.02                            |
| pp'TDE         | 27                       | 22.2                   | 0.03                         | 0.02 - 0.36                            |
| Toxaphene      | 27                       | 14.8                   | 0.14                         | 0.13 - 2.19                            |
| Trifluralin    | 27                       | 7.4                    | <0.01                        | 0.04 - 0.05                            |

## UTAH

| Pesticide Name     | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level | Range of<br>Detected Residues |
|--------------------|--------------------------|------------------------|---------------------|-------------------------------|
| Arsenic            | 12                       | 91.7                   | 4.16                | 0.62 - 12.66                  |
| Chlordane          | 12                       | 33.3                   | 0.04                | 0.02 - 0.25                   |
| pp'DDE             | 12                       | 16.7                   | <0.01               | 0.01 - 0.02                   |
| pp'DDT             | 12                       | 8.3                    | <0.01               | 0.03 - 0.03                   |
| DDTR               | 12                       | 16.7                   | 0.01                | 0.01 - 0.05                   |
| Dieldrin           | 12                       | 16.7                   | 0.01                | 0.02 - 0.15                   |
| Heptachlor         | 12                       | 16.7                   | 0.02                | 0.02 - 0.26                   |
| Heptachlor Epoxide | 12                       | 25.0                   | 0.01                | 0.02 - 0.05                   |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## VERMONT

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 4                     | 100.0               | 1.79                   | 0.99 - 2.30                      |
| pp'DDE         | 5                     | 20.0                | <0.01                  | 0.01 - 0.01                      |
| DDTR           | 5                     | 20.0                | <0.01                  | 0.01 - 0.01                      |
| Dieldrin       | 5                     | 20.0                | <0.01                  | 0.01 - 0.01                      |

## VIRGINIA

| Pesticide Name  | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|-----------------|-----------------------|---------------------|------------------|----------------------------|
| Aldrin          | 21                    | 4.8                 | <0.01            | 0.01 - 0.01                |
| Arsenic         | 20                    | 100.0               | 3.34             | 0.69 - 12.34               |
| Chlordane       | 21                    | 23.8                | 0.01             | 0.01 - 0.11                |
| pp'DDE          | 21                    | 52.4                | 0.02             | 0.01 - 0.22                |
| op'DDT          | 21                    | 19.1                | 0.01             | 0.01 - 0.17                |
| pp'DDT          | 21                    | 38.1                | 0.11             | 0.01 - 1.31                |
| DDTR            | 21                    | 52.4                | 0.17             | 0.01 - 1.75                |
| Dieldrin        | 21                    | 28.6                | 0.08             | 0.01 - 1.60                |
| Heptachlor      | 21                    | 19.1                | 0.01             | 0.01 - 0.05                |
| Malathion       | 1                     | 100.0               | 0.04             | 0.04 - 0.04                |
| Ethyl Parathion | 1                     | 100.0               | 0.90             | 0.90 - 0.90                |
| op'TDE          | 21                    | 4.8                 | <0.01            | 0.07 - 0.07                |
| pp'TDE          | 21                    | 33.3                | 0.02             | 0.01 - 0.19                |
| Toxaphene       | 21                    | 4.7                 | 0.01             | 0.28 - 0.28                |

TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT,

## WASHINGTON

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin         | 45                    | 4.4                 | <0.01                  | 0.09 - 0.10                      |
| Arsenic        | 45                    | 100.0               | 2.61                   | 0.71 - 7.02                      |
| 2,4-D          | 6                     | 16.7                | <0.01                  | 0.01 - 0.01                      |
| op'DDE         | 45                    | 4.4                 | <0.01                  | 0.01 - 0.09                      |
| pp'DDE         | 45                    | 22.2                | 0.17                   | 0.01 - 6.99                      |
| op'DDT         | 45                    | 13.3                | 0.06                   | 0.01 - 2.58                      |
| pp'DDT         | 45                    | 22.2                | 0.46                   | 0.01 - 19.75                     |
| DDTR           | 45                    | 24.4                | 0.72                   | 0.01 - 30.69                     |
| Dieldrin       | 45                    | 17.8                | 0.02                   | 0.01 - 0.30                      |
| op'TDE         | 45                    | 2.2                 | <0.01                  | 0.17 - 0.17                      |
| pp'TDE         | 45                    | 6.7                 | 0.03                   | 0.01 - 1.11                      |
| Toxaphene      | 45                    | 2.2                 | 0.02                   | 0.73 - 0.73                      |
| Trifluralin    | 45                    | 2.2                 | <0.01                  | 0.08 - 0.08                      |

## WEST VIRGINIA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level | Range of Detected Residues |
|--------------------|-----------------------|---------------------|------------------|----------------------------|
| Arsenic            | 6                     | 100.0               | 6.33             | 4.36 - 8.17                |
| Chlordane          | 6                     | 50.0                | 0.21             | 0.09 - 0.78                |
| pp'DDE             | 6                     | 33.3                | 0.02             | 0.04 - 0.10                |
| pp'DDT             | 6                     | 33.3                | 0.01             | 0.01 - 0.07                |
| DDTR               | 6                     | 33.3                | 0.04             | 0.05 - 0.17                |
| Dieldrin           | 6                     | 16.7                | 0.04             | 0.23 - 0.23                |
| Heptachlor Epoxide | 6                     | 50.0                | 0.06             | 0.08 - 0.18                |



TABLE 4. SUMMARY OF PESTICIDE RESIDUES IN CROPLAND SOIL (CONT)

## WISCONSIN

| Pesticide Name     | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|--------------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Aldrin             | 67                       | 7.5                    | <0.01                        | 0.01 - 0.04                            |
| Arsenic            | 68                       | 100.0                  | 3.78                         | 0.34 - 10.01                           |
| Chlordane          | 67                       | 4.5                    | 0.01                         | 0.04 - 0.32                            |
| op'DDE             | 67                       | 1.5                    | <0.01                        | 0.02 - 0.02                            |
| pp'DDE             | 67                       | 13.4                   | 0.01                         | 0.01 - 0.27                            |
| op'DDT             | 67                       | 4.5                    | 0.01                         | 0.05 - 0.20                            |
| pp'DDT             | 67                       | 10.5                   | 0.01                         | 0.01 - 0.30                            |
| DDTR               | 67                       | 13.4                   | 0.02                         | 0.01 - 0.71                            |
| Dieldrin           | 67                       | 13.4                   | 0.01                         | 0.01 - 0.17                            |
| Heptachlor         | 67                       | 3.0                    | <0.01                        | 0.01 - 0.01                            |
| Heptachlor Epoxide | 67                       | 3.0                    | <0.01                        | 0.01 - 0.01                            |
| pp'TDE             | 67                       | 6.0                    | <0.01                        | 0.01 - 0.12                            |
| Trifluralin        | 67                       | 1.5                    | <0.01                        | 0.01 - 0.01                            |

## WYOMING

| Pesticide Name     | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level | Range of<br>Detected Residues |
|--------------------|--------------------------|------------------------|---------------------|-------------------------------|
| Arsenic            | 17                       | 82.4                   | 1.71                | 0.40 - 10.88                  |
| Chlordane          | 17                       | 23.5                   | 0.05                | 0.03 - 0.48                   |
| Dieldrin           | 17                       | 35.3                   | 0.02                | 0.02 - 0.19                   |
| Heptachlor Epoxide | 17                       | 17.7                   | 0.01                | 0.02 - 0.05                   |

TABLE 5. SUMMARY OF PESTICIDE RESIDUES IN NONCROPLAND SOIL

## ARIZONA

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 44                    | 100.0               | 6.63                   | 1.35 - 30.64                     |
| Chlordane      | 44                    | 2.3                 | <0.01                  | 0.08 - 0.08                      |
| pp'DDE         | 44                    | 18.2                | <0.01                  | 0.01 - 0.06                      |
| pp'DDT         | 44                    | 2.3                 | <0.01                  | 0.03 - 0.03                      |
| DDTR           | 44                    | 18.2                | <0.01                  | 0.01 - 0.09                      |
| Dieldrin       | 44                    | 2.3                 | <0.01                  | 0.03 - 0.03                      |

## GEORGIA

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 19                    | 94.7                | 1.47                   | 0.53 - 4.29                      |
| pp'DDE         | 10                    | 60.0                | 0.02                   | 0.01 - 0.07                      |
| op'DDT         | 10                    | 20.0                | <0.01                  | 0.01 - 0.02                      |
| pp'DDT         | 10                    | 50.0                | 0.02                   | 0.01 - 0.10                      |
| DDTR           | 10                    | 70.0                | 0.05                   | 0.01 - 0.12                      |
| Dieldrin       | 10                    | 10.0                | <0.01                  | 0.01 - 0.01                      |
| pp'TDE         | 10                    | 10.0                | <0.01                  | 0.01 - 0.01                      |

## IDAHO

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 26                    | 100.0               | 7.73                   | 1.01 - 39.07                     |
| pp'DDE         | 26                    | 11.5                | <0.01                  | 0.01 - 0.01                      |
| op'DDT         | 26                    | 3.9                 | <0.01                  | 0.02 - 0.02                      |
| pp'DDT         | 26                    | 3.9                 | <0.01                  | 0.06 - 0.06                      |
| DDTR           | 26                    | 11.5                | 0.01                   | 0.01 - 0.11                      |
| pp'TDE         | 26                    | 3.9                 | <0.01                  | 0.02 - 0.02                      |

TABLE 5. SUMMARY OF PESTICIDE RESIDUES IN NONCROPLAND SOIL (CONT)

## IOWA

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Aldrin         | 7                     | 14.3                | <0.01                  | 0.02 - 0.02                      |
| Arsenic        | 7                     | 100.0               | 7.08                   | 1.71 - 17.39                     |

## MAINE

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 8                     | 100.0               | 5.14                   | 1.40 - 13.00                     |
| pp'DDE         | 11                    | 9.1                 | 0.02                   | 0.18 - 0.18                      |
| op'DDT         | 11                    | 9.1                 | <0.01                  | 0.03 - 0.03                      |
| pp'DDT         | 11                    | 9.1                 | 0.02                   | 0.23 - 0.23                      |
| DDTR           | 11                    | 9.1                 | 0.06                   | 0.62 - 0.62                      |
| pp'TDE         | 11                    | 9.1                 | 0.02                   | 0.18 - 0.18                      |

## MARYLAND

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 3                     | 100.0               | 8.43                   | 5.20 - 11.97                     |
| pp'DDE         | 3                     | 33.3                | 0.02                   | 0.05 - 0.05                      |
| op'DDT         | 3                     | 33.3                | 0.01                   | 0.03 - 0.03                      |
| pp'DDT         | 3                     | 66.7                | 0.05                   | 0.03 - 0.11                      |
| DDTR           | 3                     | 66.7                | 0.09                   | 0.03 - 0.23                      |
| pp'TDE         | 3                     | 33.3                | 0.01                   | 0.04 - 0.04                      |

TABLE 5. SUMMARY OF PESTICIDE RESIDUES IN NONCROPLAND SOIL (CONT)

## NEBRASKA

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic            | 17                    | 94.1                | 2.18                   | 0.33 - 8.42                      |
| Chlordane          | 19                    | 5.3                 | <0.01                  | 0.04 - 0.04                      |
| pp'DDE             | 19                    | 15.8                | <0.01                  | 0.01 - 0.04                      |
| op'DDT             | 19                    | 5.3                 | <0.01                  | 0.01 - 0.01                      |
| pp'DDT             | 19                    | 5.3                 | <0.01                  | 0.02 - 0.02                      |
| DDTR               | 19                    | 15.8                | <0.01                  | 0.01 - 0.07                      |
| Dicofol            | 19                    | 10.5                | 0.02                   | 0.10 - 0.29                      |
| Dieldrin           | 19                    | 10.5                | <0.01                  | 0.01 - 0.01                      |
| Heptachlor Epoxide | 19                    | 5.3                 | <0.01                  | 0.01 - 0.01                      |

## VIRGINIA

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 10                    | 100.0               | 4.07                   | 0.50 - 12.42                     |
| pp'DDT         | 13                    | 23.1                | 0.01                   | 0.03 - 0.07                      |
| DDTR           | 13                    | 23.1                | 0.01                   | 0.03 - 0.09                      |
| Dieldrin       | 13                    | 15.4                | 0.01                   | 0.03 - 0.09                      |
| pp'TDE         | 13                    | 7.7                 | <0.01                  | 0.02 - 0.02                      |

## WASHINGTON

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 21                    | 100.0               | 6.94                   | 1.58 - 54.17                     |
| pp'DDE         | 21                    | 14.3                | <0.01                  | 0.01 - 0.02                      |
| pp'DDT         | 21                    | 9.5                 | <0.01                  | 0.01 - 0.01                      |
| DDTR           | 21                    | 14.3                | <0.01                  | 0.01 - 0.03                      |

TABLE 5. SUMMARY OF PESTICIDE RESIDUES IN NONCROPLAND SOIL (CONT)

## WEST VIRGINIA

| Pesticide Name | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|----------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic        | 6                     | 100.0               | 5.16                   | 2.67 - 13.26                     |
| pp'DDE         | 8                     | 12.5                | <0.01                  | 0.02 - 0.02                      |
| pp'DDT         | 8                     | 12.5                | 0.01                   | 0.05 - 0.05                      |
| DDTR           | 8                     | 12.5                | 0.01                   | 0.08 - 0.08                      |
| Dieldrin       | 8                     | 12.5                | 0.01                   | 0.04 - 0.04                      |
| pp'TDE         | 8                     | 12.5                | <0.01                  | 0.01 - 0.01                      |

## WYOMING

| Pesticide Name     | No. of Pest. Analyses | Pct. of Times Found | Mean Pest. Level (ppm) | Range of Detected Residues (ppm) |
|--------------------|-----------------------|---------------------|------------------------|----------------------------------|
| Arsenic            | 37                    | 97.3                | 2.73                   | 0.35 - 19.33                     |
| Chlordane          | 37                    | 2.7                 | 0.01                   | 0.50 - 0.50                      |
| op'DDE             | 37                    | 2.7                 | <0.01                  | 0.02 - 0.02                      |
| pp'DDE             | 37                    | 2.7                 | 0.01                   | 0.31 - 0.31                      |
| op'DDT             | 37                    | 2.7                 | <0.01                  | 0.05 - 0.05                      |
| pp'DDT             | 37                    | 2.7                 | <0.01                  | 0.18 - 0.18                      |
| DDTR               | 37                    | 2.7                 | 0.02                   | 0.56 - 0.56                      |
| Dieldrin           | 37                    | 2.7                 | <0.01                  | 0.02 - 0.02                      |
| Heptachlor Epoxide | 37                    | 2.7                 | <0.01                  | 0.01 - 0.01                      |
| Toxaphene          | 37                    | 2.7                 | 0.01                   | 0.52 - 0.52                      |



TABLE 6. COMPARISON OF THE STATES HAVING THE HIGHEST ARSENIC RESIDUES

| State        | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|--------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Arkansas     | 47                       | 100.0                  | 9.0                          | 1.7 - 28.2                             |
| Kentucky     | 31                       | 100.0                  | 8.4                          | 2.6 - 12.8                             |
| New England  | 19                       | 100.0                  | 10.2                         | 1.0 - 14.1                             |
| New York     | 37                       | 94.6                   | 9.4                          | 1.2 - 43.9                             |
| North Dakota | 158                      | 100.0                  | 8.5                          | 1.0 - 37.5                             |
| Ohio         | 69                       | 100.0                  | 11.2                         | 1.2 - 41.5                             |
| Pennsylvania | 29                       | 100.0                  | 10.8                         | 3.0 - 64.9                             |

TABLE 7. COMPARISON OF THE STATES HAVING THE HIGHEST DDTR RESIDUES

| State          | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|----------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Alabama        | 22                       | 90.9                   | 1.13                         | 0.05 - 8.08                            |
| California     | 65                       | 84.6                   | 1.47                         | 0.01 - 41.81                           |
| Michigan       | 51                       | 23.5                   | 2.09                         | 0.01 - 78.36                           |
| Mississippi    | 29                       | 89.7                   | 2.06                         | 0.03 - 13.14                           |
| South Carolina | 17                       | 88.2                   | 1.17                         | 0.01 - 4.78                            |

TABLE 8. COMPARISON OF THE STATES WITH THE HIGHEST DIELDRIN RESIDUES

| State                | No. of Pest.<br>Analyses | Pct. of<br>Times Found | Mean Pest.<br>Level<br>(ppm) | Range of<br>Detected Residues<br>(ppm) |
|----------------------|--------------------------|------------------------|------------------------------|----------------------------------------|
| Florida              | 18                       | 38.9                   | 0.08                         | 0.01 - 0.52                            |
| Illinois             | 142                      | 61.3                   | 0.11                         | 0.01 - 1.42                            |
| Iowa                 | 151                      | 53.6                   | 0.06                         | 0.01 - 0.42                            |
| Kentucky             | 31                       | 54.8                   | 0.06                         | 0.01 - 0.65                            |
| North Carolina       | 31                       | 32.3                   | 0.08                         | 0.01 - 1.53                            |
| Virginia/W. Virginia | 27                       | 25.9                   | 0.07                         | 0.01 - 1.60                            |

TABLE 9. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND FOR ALL STATES

## ALL STATES - 1684 SITES

| Pesticide Name             | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------------------|---------------|----------------------------|------------------------|
| Aldrin                     | 4.16          | 1.25                       | 0.0522                 |
| Amiben                     | 2.14          | 1.07                       | 0.0229                 |
| Aramite                    | 0.12          | 2.35                       | 0.0028                 |
| Atrazine                   | 7.66          | 1.88                       | 0.1442                 |
| Azinphosmethyl             | 0.59          | 1.70                       | 0.0101                 |
| Azodrin                    | 0.42          | 2.07                       | 0.0086                 |
| Bacillus Thuringiensis     | 0.12          | 9.50                       | 0.0113                 |
| Barban                     | 0.12          | 0.17                       | 0.0002                 |
| Benefin                    | 0.18          | 1.36                       | 0.0024                 |
| Benzene Hexachloride       | 0.06          | 3.00                       | 0.0018                 |
| Bidrin                     | 0.24          | 0.18                       | 0.0004                 |
| Binapacryl                 | 0.06          | 2.12                       | 0.0013                 |
| Bordeaux Mixtures          | 0.06          | 0.50                       | 0.0003                 |
| Cacodylic Acid             | 0.06          | 0.01                       | 0.0000                 |
| Captan                     | 11.16         | 0.12                       | 0.0133                 |
| Carbaryl                   | 1.72          | 3.64                       | 0.0627                 |
| Carbophenothion            | 0.18          | 1.83                       | 0.0033                 |
| CDAA                       | 0.89          | 1.78                       | 0.0158                 |
| Ceresan L                  | 1.25          | 0.01                       | 0.0002                 |
| Ceresan M                  | 1.48          | 0.01                       | 0.0001                 |
| Ceresan Red                | 1.84          | 0.01                       | 0.0003                 |
| Chevron RE-5353            | 0.30          | 1.72                       | 0.0051                 |
| Chlordane                  | 0.12          | 3.10                       | 0.0037                 |
| Chlorobenzilate            | 0.12          | 1.31                       | 0.0016                 |
| Chloroneb                  | 0.36          | 0.05                       | 0.0002                 |
| Chloroxuron                | 0.30          | 1.65                       | 0.0049                 |
| Chromophon                 | 0.06          | 0.15                       | 0.0001                 |
| CIPC                       | 0.12          | 1.50                       | 0.0018                 |
| Copper Carbonate           | 0.06          | 0.60                       | 0.0004                 |
| Copper Oxide               | 0.18          | 4.23                       | 0.0075                 |
| Copper Oxychloride Sulfate | 0.12          | 4.68                       | 0.0056                 |
| Copper-8-Quinolinate       | 0.06          | 0.01                       | 0.0000                 |
| Copper Sulfate             | 0.36          | 13.53                      | 0.0482                 |
| Cotoran                    | 0.48          | 0.74                       | 0.0035                 |
| 2,4-D                      | 15.14         | 0.54                       | 0.0825                 |
| 2,4-DB                     | 0.89          | 0.48                       | 0.0042                 |
| Dalapon                    | 0.42          | 2.12                       | 0.0088                 |
| DDT Technical              | 3.44          | 5.56                       | 0.1915                 |

TABLE 9. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND FOR ALL STATES (CONT)

## ALL STATES - 1684 SITES

| Pesticide Name     | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|--------------------|---------------|----------------------------|------------------------|
| DEF                | 0.59          | 1.66                       | 0.0099                 |
| Demeton            | 0.18          | 0.59                       | 0.0011                 |
| Diazinon           | 1.96          | 1.22                       | 0.0240                 |
| Dicamba            | 0.30          | 0.39                       | 0.0012                 |
| Dichlone           | 0.12          | 2.00                       | 0.0024                 |
| Dichloropropane    | 0.06          | 54.43                      | 0.0323                 |
| Dichloropropene    | 0.36          | 70.07                      | 0.2496                 |
| Dichlorprop        | 0.06          | 2.00                       | 0.0012                 |
| Dicofol            | 0.42          | 2.12                       | 0.0088                 |
| Dieldrin           | 1.19          | 0.17                       | 0.0021                 |
| Difolatan          | 0.06          | 0.01                       | 0.0000                 |
| Dimetan            | 0.06          | 0.01                       | 0.0000                 |
| Dimethoate         | 0.12          | 0.75                       | 0.0009                 |
| Dinitrobutylphenol | 0.95          | 3.78                       | 0.0359                 |
| Dinitrocresol      | 0.06          | 3.00                       | 0.0018                 |
| Dinocap            | 0.12          | 0.22                       | 0.0003                 |
| Dioxathion         | 0.12          | 2.60                       | 0.0031                 |
| Diphenamid         | 0.24          | 2.19                       | 0.0052                 |
| Diquat             | 0.06          | 0.83                       | 0.0005                 |
| Disulfoton         | 1.72          | 1.77                       | 0.0305                 |
| Dithane M-45       | 0.30          | 5.82                       | 0.0173                 |
| Diuron             | 1.13          | 0.93                       | 0.0105                 |
| DSMA               | 0.36          | 1.52                       | 0.0054                 |
| Endosulfan (I)     | 0.48          | 1.11                       | 0.0053                 |
| Endrin             | 0.48          | 2.21                       | 0.0105                 |
| EPN                | 0.06          | 1.50                       | 0.0009                 |
| EPTC               | 0.36          | 2.65                       | 0.0094                 |
| Ethion             | 0.24          | 2.06                       | 0.0049                 |
| Ethylene Dibromide | 0.12          | 14.62                      | 0.0174                 |
| Falone             | 0.06          | 2.00                       | 0.0012                 |
| Ferbam             | 0.06          | 9.12                       | 0.0054                 |
| Folex              | 0.06          | 1.50                       | 0.0009                 |
| Heptachlor         | 1.96          | 0.33                       | 0.0065                 |
| Herbisan           | 0.06          | 10.00                      | 0.0060                 |
| Hexachlorobenzene  | 0.06          | 0.01                       | 0.0000                 |
| Lead Arsenate      | 0.06          | 3.80                       | 0.0023                 |
| Lindane            | 0.65          | 0.03                       | 0.0002                 |
| Linuron            | 0.77          | 0.73                       | 0.0056                 |
| Malathion          | 7.54          | 0.17                       | 0.0127                 |
| Maleic Hydrazide   | 0.36          | 1.43                       | 0.0051                 |
| Maneb              | 0.30          | 2.14                       | 0.0064                 |
| MCPA               | 1.07          | 0.33                       | 0.0035                 |
| Methoxychlor       | 2.20          | 0.04                       | 0.0008                 |



TABLE 9. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND FOR ALL STATES (CONT)

ALL STATES - 1684 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Methyl Demeton              | 0.06          | 1.50                       | 0.0009                 |
| Methylmercury Dicyandiamide | 5.46          | 0.01                       | 0.0006                 |
| Methylmercury Nitrile       | 0.06          | 0.01                       | 0.0000                 |
| Mevinphos                   | 0.36          | 1.48                       | 0.0053                 |
| Mirex                       | 0.24          | 0.01                       | 0.0000                 |
| Monuron                     | 0.06          | 1.60                       | 0.0010                 |
| MSMA                        | 0.48          | 1.21                       | 0.0058                 |
| Nabam                       | 0.24          | 1.78                       | 0.0042                 |
| Naled                       | 0.30          | 1.62                       | 0.0048                 |
| Nitralin                    | 0.36          | 0.76                       | 0.0027                 |
| Nitrate                     | 1.13          | 64.58                      | 0.7286                 |
| Norea                       | 0.12          | 0.46                       | 0.0006                 |
| NPA                         | 0.36          | 1.01                       | 0.0036                 |
| Oxydemetonmethyl            | 0.18          | 0.40                       | 0.0007                 |
| Ethyl Parathion             | 1.84          | 1.48                       | 0.0272                 |
| Methyl Parathion            | 3.03          | 3.07                       | 0.0929                 |
| PCNB                        | 0.42          | 1.59                       | 0.0066                 |
| PCP                         | 0.06          | 1.50                       | 0.0009                 |
| Phenylmercury Urea          | 0.06          | 0.01                       | 0.0000                 |
| Phorate                     | 0.65          | 2.17                       | 0.0142                 |
| Phosphamidon                | 0.12          | 0.13                       | 0.0002                 |
| Picloram                    | 0.12          | 0.63                       | 0.0007                 |
| PMA                         | 0.18          | 0.06                       | 0.0001                 |
| Polyram                     | 0.06          | 10.40                      | 0.0062                 |
| Prometryne                  | 0.06          | 2.00                       | 0.0012                 |
| Propanil                    | 0.42          | 3.96                       | 0.0165                 |
| Propazine                   | 0.06          | 2.00                       | 0.0012                 |
| Ramrod                      | 1.37          | 1.45                       | 0.0198                 |
| Ro-Neet                     | 0.12          | 1.88                       | 0.0022                 |
| Roundup                     | 0.12          | 0.78                       | 0.0009                 |
| Randox T                    | 0.12          | 0.90                       | 0.0011                 |
| Silvex                      | 0.12          | 0.63                       | 0.0007                 |
| Simazine                    | 0.12          | 2.07                       | 0.0025                 |
| Simetryne                   | 0.06          | 2.00                       | 0.0012                 |
| Sodium Arsenite             | 0.24          | 5.25                       | 0.0125                 |
| Sodium Chlorate             | 0.06          | 6.00                       | 0.0036                 |
| Strobane                    | 0.12          | 16.50                      | 0.0196                 |
| Sulfur                      | 0.71          | 34.00                      | 0.2423                 |

TABLE 9. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND FOR ALL STATES (CONT)

## ALL STATES - 1684 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| 2,4,5-T        | 0.18          | 0.83                       | 0.0015                 |
| TCA            | 0.06          | 2.00                       | 0.0012                 |
| TDE Technical  | 0.36          | 2.31                       | 0.0082                 |
| Tetradifon     | 0.12          | 0.50                       | 0.0006                 |
| Thiram         | 1.07          | 0.03                       | 0.0003                 |
| Toxaphene      | 1.90          | 9.87                       | 0.1876                 |
| Trichlorofon   | 0.06          | 0.80                       | 0.0005                 |
| Trifluralin    | 4.33          | 0.76                       | 0.0327                 |
| Vernolate      | 0.53          | 1.29                       | 0.0069                 |
| Zineb          | 0.18          | 4.90                       | 0.0087                 |
| Ziram          | 0.06          | 0.80                       | 0.0005                 |

TABLE 10 SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON NONCROPLAND FOR ALL STATES

ALL STATES - 195 SITES

| Pesticide Name | Pct. of<br>Sites | Average<br>Appl. Rate<br>(lbs/a) | Average<br>Amount<br>(lbs/a) |
|----------------|------------------|----------------------------------|------------------------------|
| 2,4-D          | 0.51             | 2.00                             | 0.0103                       |
| Malathion      | 0.51             | 0.61                             | 0.0031                       |
| Mirex          | 0.51             | 0.01                             | 0.0001                       |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND

## ALABAMA - 23 SITES

| Pesticide Name       | Pct. of<br>Sites | Average<br>Appl. Rate<br>(lbs/a) | Average<br>Amount<br>(lbs/a) |
|----------------------|------------------|----------------------------------|------------------------------|
| Azodrin              | 4.35             | 0.84                             | 0.0365                       |
| Benzene Hexachloride | 4.35             | 3.00                             | 0.1304                       |
| Captan               | 21.74            | 0.04                             | 0.0083                       |
| Carbaryl             | 4.35             | 0.40                             | 0.0174                       |
| Ceresan M            | 4.35             | 0.01                             | 0.0004                       |
| Copper Sulfate       | 8.70             | 36.08                            | 3.1374                       |
| Cotoran              | 4.35             | 1.50                             | 0.0652                       |
| DDT Technical        | 39.13            | 10.73                            | 4.2000                       |
| DEF                  | 4.35             | 1.50                             | 0.0652                       |
| Disulfoton           | 8.70             | 0.35                             | 0.0304                       |
| Diuron               | 8.70             | 0.95                             | 0.0826                       |
| DSMA                 | 4.35             | 1.00                             | 0.0435                       |
| Endrin               | 8.70             | 1.20                             | 0.1043                       |
| EPN                  | 4.35             | 1.50                             | 0.0652                       |
| Malathion            | 8.70             | 2.50                             | 0.2174                       |
| Ethyl Parathion      | 4.35             | 1.00                             | 0.0435                       |
| Methyl Parathion     | 52.17            | 3.42                             | 1.7848                       |
| MSMA                 | 8.70             | 1.50                             | 0.1304                       |
| Phorate              | 4.35             | 1.00                             | 0.0435                       |
| Prometryne           | 4.35             | 2.00                             | 0.0870                       |
| Thiram               | 4.35             | 0.02                             | 0.0009                       |
| Toxaphene            | 17.39            | 3.45                             | 0.6000                       |
| Trifluralin          | 47.83            | 0.61                             | 0.2913                       |
| Vernolate            | 8.70             | 1.05                             | 0.0913                       |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## ARIZONA - 9 SITES

| Pesticide Name   | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|------------------|---------------|----------------------------|------------------------|
| Azodrin          | 11.11         | 6.25                       | 0.6944                 |
| Captan           | 11.11         | 0.01                       | 0.0011                 |
| Ceresan L        | 11.11         | 0.01                       | 0.0011                 |
| Demeton          | 11.11         | 0.13                       | 0.0144                 |
| Dieldrin         | 11.11         | 0.01                       | 0.0011                 |
| Diuron           | 11.11         | 1.00                       | 0.1111                 |
| Endosulfan (I)   | 11.11         | 2.00                       | 0.2222                 |
| Naled            | 11.11         | 0.50                       | 0.0556                 |
| Ethyl Parathion  | 22.22         | 5.50                       | 1.2222                 |
| Methyl Parathion | 44.44         | 2.75                       | 1.2244                 |
| PCNB             | 11.11         | 0.75                       | 0.0833                 |
| Phorate          | 11.11         | 1.50                       | 0.1667                 |
| Strobane         | 11.11         | 15.00                      | 1.6667                 |
| Toxaphene        | 11.11         | 2.00                       | 0.2222                 |
| Trifluralin      | 22.22         | 1.12                       | 0.2500                 |

## ARKANSAS - 45 SITES

| Pesticide Name     | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|--------------------|---------------|----------------------------|------------------------|
| Aldrin             | 2.22          | 0.25                       | 0.0056                 |
| Captan             | 13.33         | 0.03                       | 0.0036                 |
| Ceresan M          | 2.22          | 0.01                       | 0.0002                 |
| Chloroxuron        | 6.67          | 1.00                       | 0.0667                 |
| 2,4-D              | 2.22          | 0.05                       | 0.0011                 |
| 2,4-DB             | 2.22          | 1.75                       | 0.0389                 |
| DEF                | 2.22          | 1.00                       | 0.0222                 |
| Dinitrobutylphenol | 6.67          | 1.58                       | 0.1056                 |
| Disulfoton         | 2.22          | 0.01                       | 0.0002                 |
| Diuron             | 2.22          | 0.75                       | 0.0167                 |
| DSMA               | 4.44          | 3.00                       | 0.1333                 |
| Endrin             | 2.22          | 12.00                      | 0.2667                 |
| Linuron            | 8.89          | 0.94                       | 0.0833                 |
| NPA                | 6.67          | 0.54                       | 0.0362                 |
| Nitralin           | 2.22          | 0.44                       | 0.0098                 |
| Methyl Parathion   | 2.22          | 12.00                      | 0.2667                 |
| Propanil           | 4.44          | 5.50                       | 0.2444                 |
| 2,4,5-T            | 4.44          | 0.88                       | 0.0389                 |
| Thiram             | 4.44          | 0.03                       | 0.0016                 |
| Trifluralin        | 15.56         | 0.79                       | 0.1222                 |



TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## CALIFORNIA - 66 SITES

| Pesticide Name         | Pct. of<br>Sites | Average<br>Appl. Rate<br>(lbs/a) | Average<br>Amount<br>(lbs/a) |
|------------------------|------------------|----------------------------------|------------------------------|
| Aramite                | 3.03             | 2.35                             | 0.0712                       |
| Atrazine               | 1.52             | 2.50                             | 0.0379                       |
| Azinphosmethyl         | 3.03             | 0.48                             | 0.0145                       |
| Bacillus Thuringiensis | 3.03             | 9.50                             | 0.2879                       |
| Benefin                | 1.52             | 1.83                             | 0.0277                       |
| Binapacryl             | 1.52             | 2.12                             | 0.0321                       |
| Bordeaux Mixtures      | 1.52             | 0.50                             | 0.0076                       |
| Captan                 | 1.52             | 2.30                             | 0.0348                       |
| Carbaryl               | 6.06             | 10.76                            | 0.6521                       |
| Carbophenothion        | 3.03             | 1.75                             | 0.0530                       |
| Ceresan RED            | 3.03             | 0.01                             | 0.0003                       |
| Chlordane              | 1.52             | 5.00                             | 0.0758                       |
| 2,4-D                  | 3.03             | 0.63                             | 0.0189                       |
| DDT Technical          | 13.64            | 2.82                             | 0.3844                       |
| Diazinon               | 6.06             | 0.99                             | 0.0603                       |
| Dichlorpropene         | 4.55             | 8.67                             | 0.3939                       |
| Dichlorprop            | 1.52             | 2.00                             | 0.0303                       |
| Dicofol                | 7.58             | 2.59                             | 0.1962                       |
| Dimethoate             | 1.52             | 1.00                             | 0.0152                       |
| Dioxathion             | 3.03             | 2.60                             | 0.0788                       |
| Diphenamid             | 1.52             | 2.62                             | 0.0397                       |
| Disulfoton             | 3.03             | 4.00                             | 0.1212                       |
| Diuron                 | 1.52             | 0.75                             | 0.0114                       |
| Dithane M-45           | 3.03             | 5.00                             | 0.1515                       |
| Endosulfan (I)         | 7.58             | 0.99                             | 0.0750                       |
| Ethion                 | 3.03             | 1.38                             | 0.0417                       |
| Malathion              | 4.55             | 1.65                             | 0.0750                       |
| MCPA                   | 3.03             | 0.76                             | 0.0230                       |
| Mevinphos              | 9.09             | 1.48                             | 0.1345                       |
| Nabam                  | 1.52             | 3.50                             | 0.0530                       |
| Naled                  | 6.06             | 1.90                             | 0.1152                       |
| Ethyl Parathion        | 6.06             | 2.03                             | 0.1230                       |
| Methyl Parathion       | 4.55             | 6.10                             | 0.2773                       |
| Propanil               | 3.03             | 3.63                             | 0.1098                       |
| Simazine               | 1.52             | 3.75                             | 0.0568                       |
| Simetryne              | 1.52             | 2.00                             | 0.0303                       |
| Sulfur                 | 7.58             | 35.79                            | 2.7115                       |
| Tetradifon             | 3.03             | 0.50                             | 0.0152                       |
| Toxaphene              | 6.06             | 9.75                             | 0.5908                       |
| Trichlorofon           | 1.52             | 0.80                             | 0.0121                       |
| Trifluralin            | 6.06             | 0.88                             | 0.0530                       |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## COLORADO - 60 SITES

| Pesticide Name  | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------|---------------|----------------------------|------------------------|
| Aldrin          | 3.33          | 0.08                       | 0.0027                 |
| Carbaryl        | 1.67          | 1.00                       | 0.0167                 |
| Ceresan M       | 1.67          | 0.01                       | 0.0002                 |
| 2,4-D           | 10.00         | 0.51                       | 0.0508                 |
| 2,4-DB          | 1.67          | 0.70                       | 0.0117                 |
| Endrin          | 5.00          | 0.33                       | 0.0167                 |
| Malathion       | 1.67          | 0.60                       | 0.0100                 |
| Ethyl Parathion | 1.67          | 0.25                       | 0.0042                 |
| Picloram        | 1.67          | 1.00                       | 0.0167                 |
| PMA             | 1.67          | 0.15                       | 0.0025                 |

## CONNECTICUT - 2 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Atrazine       | 50.00         | 2.50                       | 1.2500                 |

## DELAWARE - 3 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate | Average Amount |
|----------------|---------------|--------------------|----------------|
| Captan         | 33.33         | 0.04               | 0.0133         |
| Lindane        | 33.33         | 0.08               | 0.0267         |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## FLORIDA - 15 SITES

| Pesticide Name             | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------------------|---------------|----------------------------|------------------------|
| Atrazine                   | 6.67          | 0.80                       | 0.0533                 |
| Azinphosmethyl             | 6.67          | 2.50                       | 0.1667                 |
| Captan                     | 6.67          | 7.50                       | 0.5000                 |
| Carbophenothion            | 6.67          | 2.00                       | 0.1333                 |
| Chlorobenzilate            | 13.33         | 1.31                       | 0.1753                 |
| Copper Oxide               | 6.67          | 7.50                       | 0.5000                 |
| Copper Oxychloride Sulfate | 6.67          | 8.00                       | 0.5333                 |
| 2,4-D                      | 6.67          | 1.50                       | 0.1000                 |
| Dalapon                    | 6.67          | 1.70                       | 0.1133                 |
| DDT Technical              | 6.67          | 7.00                       | 0.4667                 |
| Diazinon                   | 6.67          | 2.90                       | 0.1933                 |
| Dichlorpropene             | 6.67          | 194.40                     | 12.9600                |
| Dicofol                    | 6.67          | 1.50                       | 0.1000                 |
| Ethion                     | 13.33         | 2.75                       | 0.3667                 |
| Ferbam                     | 6.67          | 9.12                       | 0.6080                 |
| Mirex                      | 6.67          | 0.01                       | 0.0007                 |
| Ethyl Parathion            | 13.33         | 2.85                       | 0.3800                 |
| Methyl Parathion           | 6.67          | 10.00                      | 0.6667                 |
| Sulfur                     | 6.67          | 46.50                      | 3.1000                 |
| 2,4,5-T                    | 6.67          | 0.75                       | 0.0500                 |
| TDE Technical              | 6.67          | 10.00                      | 0.6667                 |
| Toxaphene                  | 6.67          | 2.00                       | 0.1333                 |
| Zineb                      | 13.33         | 6.55                       | 0.8733                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## GEORGIA - 28 SITES

| Pesticide Name             | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------------------|---------------|----------------------------|------------------------|
| Atrazine                   | 7.14          | 3.00                       | 0.2143                 |
| Azodrin                    | 3.57          | 4.00                       | 0.1429                 |
| Benefin                    | 7.14          | 1.12                       | 0.0800                 |
| Captan                     | 39.29         | 0.08                       | 0.0307                 |
| Ceresan RED                | 10.71         | 0.01                       | 0.0011                 |
| Copper Oxychloride Sulfate | 3.57          | 1.36                       | 0.0486                 |
| Copper Sulfate             | 3.57          | 2.72                       | 0.0971                 |
| 2,4-D                      | 10.71         | 0.50                       | 0.0536                 |
| DDT Technical              | 21.43         | 14.18                      | 3.0396                 |
| Disulfoton                 | 3.57          | 2.00                       | 0.0714                 |
| Folex                      | 3.57          | 1.50                       | 0.0536                 |
| Malathion                  | 21.43         | 0.34                       | 0.0732                 |
| Maleic Hydrazide           | 7.14          | 2.41                       | 0.1725                 |
| Methoxychlor               | 28.57         | 0.02                       | 0.0046                 |
| Mirex                      | 3.57          | 0.01                       | 0.0004                 |
| Ethyl Parathion            | 3.57          | 1.00                       | 0.0357                 |
| Methyl Parathion           | 14.29         | 1.84                       | 0.2632                 |
| PCNB                       | 3.57          | 10.00                      | 0.3571                 |
| Sulfur                     | 7.14          | 40.20                      | 2.8714                 |
| Thiram                     | 10.71         | 0.04                       | 0.0043                 |
| Toxaphene                  | 17.86         | 14.45                      | 2.5804                 |
| Trifluralin                | 7.14          | 1.25                       | 0.0893                 |

## IDAHO - 33 SITES

| PESTICIDE NAME    | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-------------------|---------------|----------------------------|------------------------|
| Captan            | 12.12         | 0.01                       | 0.0015                 |
| Ceresan M         | 6.06          | 0.01                       | 0.0006                 |
| Ceresan L         | 15.15         | 0.01                       | 0.0015                 |
| CIPC              | 3.03          | 2.00                       | 0.0606                 |
| 2,4-D             | 12.12         | 2.12                       | 0.2576                 |
| 2,4-DB            | 3.03          | 0.50                       | 0.0152                 |
| DDT Tech.         | 6.06          | 0.50                       | 0.0303                 |
| Dieldrin          | 3.03          | 0.01                       | 0.0003                 |
| Diquat            | 3.03          | 0.83                       | 0.0252                 |
| EPTC              | 3.03          | 0.38                       | 0.0115                 |
| Hexachlorobenzene | 3.03          | 0.01                       | 0.0003                 |
| Ro-Neet           | 6.06          | 1.87                       | 0.1136                 |
| Trifluralin       | 6.06          | 0.56                       | 0.0342                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## ILLINOIS - 141 SITES

| PESTICIDE NAME  | Pct. of<br>Sites | Average<br>Appl. Rate<br>(lbs/a) | Average<br>Amount<br>(lbs/a) |
|-----------------|------------------|----------------------------------|------------------------------|
| Aldrin          | 19.15            | 1.52                             | 0.2914                       |
| Amiben          | 7.80             | 0.91                             | 0.0707                       |
| Atrazine        | 9.22             | 2.19                             | 0.2023                       |
| Captan          | 49.65            | 0.06                             | 0.0317                       |
| Carbaryl        | 0.71             | 4.80                             | 0.0340                       |
| CDAA            | 7.80             | 1.51                             | 0.1176                       |
| Ceresan Red     | 0.71             | 0.01                             | 0.0001                       |
| Ceresan L       | 0.71             | 0.06                             | 0.0004                       |
| Chevron RE-5353 | 1.42             | <b>2.56</b>                      | <b>0.0363</b>                |
| 2,4-D           | 20.57            | 0.42                             | 0.0864                       |
| 2,4-DB          | 2.13             | 0.35                             | 0.0075                       |
| Diazinon        | 3.55             | 1.86                             | 0.0659                       |
| Dieldrin        | 2.13             | 0.23                             | 0.0050                       |
| Heptachlor      | 9.93             | 0.46                             | 0.0455                       |
| Linuron         | 1.42             | 0.66                             | 0.0094                       |
| Malathion       | 39.72            | 0.03                             | 0.0104                       |
| Methoxychlor    | 10.64            | 0.01                             | 0.0011                       |
| Ramrod          | 7.80             | 1.22                             | 0.0955                       |
| Roundup         | 0.71             | 0.07                             | 0.0005                       |
| Silvex          | 0.71             | 0.25                             | 0.0018                       |
| Thiram          | 0.71             | 0.01                             | 0.0001                       |
| Trifluralin     | 2.84             | 0.97                             | 0.0277                       |
| Vernolate       | 0.71             | 0.37                             | 0.0026                       |



TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

INDIANA - 75 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Aldrin                      | 10.67         | 1.11                       | 0.1187                 |
| Amiben                      | 5.33          | 0.85                       | 0.0453                 |
| Atrazine                    | 13.33         | 1.79                       | 0.2393                 |
| Captan                      | 26.67         | 0.01                       | 0.0027                 |
| Carbaryl                    | 1.33          | 1.60                       | 0.0213                 |
| CDAA                        | 1.33          | 1.07                       | 0.0143                 |
| Ceresan L                   | 2.67          | 0.01                       | 0.0003                 |
| 2,4-D                       | 10.67         | 0.35                       | 0.0373                 |
| DDT Technical               | 1.33          | 0.01                       | 0.0001                 |
| Dieldrin                    | 1.33          | 0.01                       | 0.0001                 |
| Difolatan                   | 1.33          | 0.01                       | 0.0001                 |
| Heptachlor                  | 5.33          | 0.32                       | 0.0172                 |
| Malathion                   | 17.33         | 0.01                       | 0.0017                 |
| Methoxychlor                | 4.00          | 0.01                       | 0.0004                 |
| Methylmercury Dicyandiamide | 2.67          | 0.01                       | 0.0003                 |
| Ramrod                      | 2.67          | 1.40                       | 0.0373                 |
| Roundup                     | 1.33          | 1.50                       | 0.0200                 |
| Trifluralin                 | 2.67          | 0.75                       | 0.0200                 |
| Zineb                       | 1.33          | 1.60                       | 0.0213                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## IOWA - 151 SITES

| Pesticide Name  | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------|---------------|----------------------------|------------------------|
| Aldrin          | 8.61          | 0.68                       | 0.0587                 |
| Amiben          | 8.61          | 1.12                       | 0.0966                 |
| Atrazine        | 10.60         | 2.00                       | 0.2123                 |
| Captan          | 2.65          | 0.03                       | 0.0008                 |
| Carbaryl        | 0.66          | 1.00                       | 0.0066                 |
| CDAA            | 1.32          | 1.50                       | 0.0199                 |
| Chevron RE-5353 | 0.66          | 1.00                       | 0.0066                 |
| 2,4-D           | 20.53         | 0.62                       | 0.1278                 |
| Diazinon        | 6.62          | 1.19                       | 0.0791                 |
| Dicamba         | 0.66          | 0.50                       | 0.0033                 |
| Dieldrin        | 0.66          | 0.15                       | 0.0010                 |
| Heptachlor      | 4.64          | 0.35                       | 0.0164                 |
| Lindane         | 1.32          | 0.06                       | 0.0009                 |
| Ethyl Parathion | 0.66          | 0.32                       | 0.0021                 |
| Phorate         | 1.32          | 0.95                       | 0.0126                 |
| Ramrod          | 3.97          | 2.02                       | 0.0801                 |
| Randox T        | 0.66          | 0.40                       | 0.0026                 |
| Thiram          | 0.66          | 0.06                       | 0.0004                 |
| Trifluralin     | 2.65          | 0.47                       | 0.0125                 |

## KENTUCKY - 31 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Aldrin         | 9.68          | 2.00                       | 0.1935                 |
| Atrazine       | 19.35         | 1.33                       | 0.2581                 |
| 2,4-D          | 3.23          | 0.50                       | 0.0161                 |
| Dalapon        | 3.23          | 1.50                       | 0.0484                 |
| DDT Technical  | 3.23          | 3.00                       | 0.0968                 |
| EPTC           | 3.23          | 1.50                       | 0.0484                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## LOUISIANA - 27 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Aldrin                      | 22.22         | 0.08                       | 0.0178                 |
| Captan                      | 3.70          | 0.25                       | 0.0093                 |
| Carbaryl                    | 3.70          | 12.00                      | 0.4444                 |
| Ceresan L                   | 3.70          | 0.01                       | 0.0004                 |
| Cotoran                     | 3.70          | 1.00                       | 0.0370                 |
| 2,4-D                       | 11.11         | 1.58                       | 0.1759                 |
| Dalapon                     | 3.70          | 2.00                       | 0.0741                 |
| DDT Technical               | 7.41          | 23.25                      | 1.7222                 |
| DEF                         | 3.70          | 9.00                       | 0.3333                 |
| Dimetan                     | 3.70          | 0.01                       | 0.0004                 |
| Malathion                   | 3.70          | 1.00                       | 0.0370                 |
| Methylmercury Dicyandiamide | 3.70          | 0.01                       | 0.0004                 |
| Methylmercury Nitrile       | 3.70          | 0.01                       | 0.0004                 |
| MSMA                        | 3.70          | 1.50                       | 0.0556                 |
| Nitrate                     | 22.22         | 72.00                      | 16.0000                |
| Methyl Parathion            | 7.41          | 7.20                       | 0.5333                 |
| Propanil                    | 11.11         | 3.17                       | 0.3519                 |
| Silvex                      | 3.70          | 1.00                       | 0.0370                 |
| Strobane                    | 3.70          | 18.00                      | 0.6667                 |
| TCA                         | 3.70          | 2.00                       | 0.0741                 |
| Toxaphene                   | 3.70          | 75.00                      | 2.7778                 |
| Trifluralin                 | 3.70          | 1.00                       | 0.0370                 |

## MAINE - 8 SITES

| Pesticide Name     | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|--------------------|---------------|----------------------------|------------------------|
| Dalapon            | 12.50         | 4.90                       | 0.6125                 |
| Dinitrobutylphenol | 37.50         | 1.37                       | 0.5125                 |
| Disulfoton         | 25.00         | 8.50                       | 2.1250                 |
| Malathion          | 12.50         | 1.00                       | 0.1250                 |
| Maneb              | 12.50         | 0.70                       | 0.0875                 |
| Sodium Arsenite    | 25.00         | 8.80                       | 2.2000                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## MARYLAND - 13 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Atrazine       | 30.77         | 1.26                       | 0.3885                 |
| Captan         | 30.77         | 0.03                       | 0.0100                 |
| 2,4-D          | 15.38         | 0.54                       | 0.0838                 |
| Dieldrin       | 7.69          | 0.01                       | 0.0008                 |
| Lindane        | 15.38         | 0.01                       | 0.0015                 |
| Malathion      | 23.08         | 0.01                       | 0.0023                 |
| Methoxychlor   | 7.69          | 0.01                       | 0.0008                 |
| Thiram         | 7.69          | 0.01                       | 0.0008                 |

## MASSACHUSETTS - 2 SITES

| Pesticide Name     | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|--------------------|---------------|----------------------------|------------------------|
| Carbaryl           | 50.00         | 0.83                       | 0.4150                 |
| Dinitrobutylphenol | 50.00         | 3.06                       | 1.5300                 |
| Disulfoton         | 50.00         | 1.50                       | 0.7500                 |
| Dithane M-45       | 50.00         | 12.40                      | 6.2000                 |
| Maleic Hydrazide   | 50.00         | 2.32                       | 1.1600                 |
| Oxydemetonmethyl   | 50.00         | 0.25                       | 0.1250                 |
| Ethyl Parathion    | 50.00         | 0.53                       | 0.2650                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## MICHIGAN - 51 SITES

| Pesticide Name     | Pct. of<br>Sites | Average<br>Appl. Rate<br>(lbs/a) | Average<br>Amount<br>(lbs/a) |
|--------------------|------------------|----------------------------------|------------------------------|
| Atrazine           | 11.76            | 1.49                             | 0.1753                       |
| Azinphosmethyl     | 1.96             | 8.00                             | 0.1569                       |
| Captan             | 1.96             | 0.01                             | 0.0002                       |
| CDAA               | 1.96             | 6.00                             | 0.1176                       |
| Ceresan Red        | 1.96             | 0.01                             | 0.0002                       |
| CIPC               | 1.96             | 1.00                             | 0.0196                       |
| Chloroxuron        | 3.92             | 2.63                             | 0.1029                       |
| 2,4-D              | 9.80             | 0.53                             | 0.0524                       |
| DDT Tech.          | 1.96             | 1.50                             | 0.0294                       |
| Dinitrobutylphenol | 1.96             | 11.25                            | 0.2206                       |
| Diuron             | 1.96             | 2.00                             | 0.0392                       |
| EPTC               | 1.96             | 2.00                             | 0.0392                       |
| Herbisan           | 1.96             | 10.00                            | 0.1961                       |
| Malathion          | 3.92             | 0.50                             | 0.0198                       |
| Methoxychlor       | 1.96             | 0.01                             | 0.0002                       |



TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## MISSISSIPPI - 29 SITES

| Pesticide Name   | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|------------------|---------------|----------------------------|------------------------|
| Azinphosmethyl   | 3.45          | 0.25                       | 0.0086                 |
| Azodrin          | 6.90          | 0.76                       | 0.0524                 |
| Bidrin           | 6.90          | 0.03                       | 0.0024                 |
| Captan           | 24.14         | 0.09                       | 0.0210                 |
| Ceresan M        | 3.45          | 0.01                       | 0.0003                 |
| Ceresan Red      | 27.59         | 0.02                       | 0.0045                 |
| Ceresan L        | 3.45          | 0.01                       | 0.0003                 |
| Chloroneb        | 17.24         | 0.06                       | 0.0100                 |
| Cotoran          | 13.79         | 0.47                       | 0.0652                 |
| DOT Technical    | 31.03         | 3.47                       | 1.0759                 |
| DEF              | 20.69         | 0.82                       | 0.1690                 |
| Disulfoton       | 31.03         | 0.05                       | 0.0152                 |
| Diuron           | 17.24         | 0.63                       | 0.1079                 |
| DSMA             | 10.34         | 0.70                       | 0.0728                 |
| Endrin           | 3.45          | 2.00                       | 0.0690                 |
| Linuron          | 3.45          | 0.42                       | 0.0145                 |
| Malathion        | 6.90          | 1.40                       | 0.0969                 |
| Methoxychlor     | 3.45          | 0.01                       | 0.0003                 |
| Mirex            | 6.90          | 0.01                       | 0.0007                 |
| MSMA             | 10.34         | 1.44                       | 0.1486                 |
| Norea            | 3.45          | 0.33                       | 0.0114                 |
| Nitralin         | 13.79         | 0.99                       | 0.1372                 |
| Methyl Parathion | 41.38         | 2.14                       | 0.8841                 |
| PCNB             | 10.34         | 0.13                       | 0.0131                 |
| Sodium Chlorate  | 3.45          | 6.00                       | 0.2069                 |
| Toxaphene        | 34.48         | 7.50                       | 2.5862                 |
| Trifluralin      | 37.93         | 0.85                       | 0.3241                 |
| Vernolate        | 3.45          | 0.30                       | 0.0103                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## MISSOURI - 81 SITES

| Pesticide Name     | Pct. of<br>Sites | Average<br>Appl. Rate<br>(lbs/a) | Average<br>Amount<br>(lbs/a) |
|--------------------|------------------|----------------------------------|------------------------------|
| Aldrin             | 4.94             | 1.65                             | 0.0815                       |
| Amiben             | 4.94             | 1.15                             | 0.0568                       |
| Atrazine           | 12.35            | 1.87                             | 0.2315                       |
| Bidrin             | 1.23             | 0.10                             | 0.0012                       |
| Captan             | 1.23             | 0.01                             | 0.0001                       |
| Ceresan M          | 1.23             | 0.01                             | 0.0001                       |
| 2,4-D              | 11.11            | 0.77                             | 0.0856                       |
| 2,4-DB             | 2.47             | 0.25                             | 0.0062                       |
| Diazinon           | 1.23             | 0.93                             | 0.0115                       |
| Dinitrobutylphenol | 2.47             | 0.53                             | 0.0131                       |
| Heptachlor         | 1.23             | 0.19                             | 0.0023                       |
| Linuron            | 2.47             | 0.37                             | 0.0091                       |
| NPA                | 2.47             | 1.07                             | 0.0264                       |
| Methyl Parathion   | 1.23             | 0.50                             | 0.0062                       |
| Propazine          | 1.23             | 2.00                             | 0.0247                       |
| Ramrod             | 1.23             | 1.10                             | 0.0136                       |
| Trifluralin        | 7.41             | 0.91                             | 0.0673                       |
| Vernolate          | 2.47             | 1.38                             | 0.0340                       |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## NEBRASKA - 103 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Amiben                      | 0.97          | 2.50                       | 0.0243                 |
| Atrazine                    | 4.85          | 0.82                       | 0.0400                 |
| Captan                      | 17.48         | 0.04                       | 0.0069                 |
| Ceresan Red                 | 0.97          | 0.01                       | 0.0001                 |
| Ceresan L                   | 0.97          | 0.01                       | 0.0001                 |
| Chevron RE-5353             | 1.94          | 1.25                       | 0.0243                 |
| 2,4-D                       | 14.56         | 0.44                       | 0.0644                 |
| Diazinon                    | 4.85          | 0.98                       | 0.0476                 |
| Dieldrin                    | 3.88          | 0.01                       | 0.0004                 |
| Disulfoton                  | 0.97          | 0.22                       | 0.0021                 |
| EPTC                        | 0.97          | 3.00                       | 0.0291                 |
| Malathion                   | 17.48         | 0.01                       | 0.0017                 |
| Methoxychlor                | 1.94          | 0.01                       | 0.0002                 |
| Methylmercury Dicyandiamide | 4.85          | 0.01                       | 0.0005                 |
| Nabam                       | 0.97          | 0.01                       | 0.0001                 |
| Norea                       | 0.97          | 0.60                       | 0.0058                 |
| Ethyl Parathion             | 3.88          | 0.50                       | 0.0194                 |
| Phorate                     | 0.97          | 0.90                       | 0.0087                 |
| Ramrod                      | 0.97          | 0.83                       | 0.0081                 |
| Thiram                      | 4.85          | 0.03                       | 0.0014                 |

## NEVADA - 2 SITES NO PESTICIDES USED

## NEW HAMPSHIRE - 2 SITES NO PESTICIDES USED

## NEW JERSEY - 5 SITES

| Pesticide Name  | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------|---------------|----------------------------|------------------------|
| 2,4-D           | 40.00         | 0.31                       | 0.1240                 |
| Monuron         | 20.00         | 1.60                       | 0.3200                 |
| Ethyl Parathion | 20.00         | 0.54                       | 0.1080                 |
| Sulfur          | 20.00         | 9.00                       | 1.8000                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## NEW MEXICO - 10 SITES

| Pesticide Name  | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------|---------------|----------------------------|------------------------|
| Azodrin         | 10.00         | 1.50                       | 0.1500                 |
| Carbaryl        | 10.00         | 2.50                       | 0.2500                 |
| DDT Tech.       | 10.00         | 1.00                       | 0.1000                 |
| Diuron          | 20.00         | 1.12                       | 0.2250                 |
| Ethyl Parathion | 10.00         | 2.50                       | 0.2500                 |
| Toxaphene       | 10.00         | 1.00                       | 0.1000                 |

## NEW YORK - 38 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Atrazine                    | 23.68         | 1.36                       | 0.3211                 |
| Azinphosmethyl              | 5.26          | 1.15                       | 0.0605                 |
| Captan                      | 13.16         | 0.87                       | 0.1150                 |
| Carbaryl                    | 5.26          | 1.55                       | 0.0816                 |
| Copper Sulfate              | 2.63          | 3.00                       | 0.0789                 |
| 2,4-D                       | 7.89          | 0.21                       | 0.0166                 |
| Dalapon                     | 2.63          | 2.50                       | 0.0658                 |
| DDT Tech.                   | 5.26          | 1.35                       | 0.0711                 |
| Demeton                     | 2.63          | 0.04                       | 0.0011                 |
| Diazinon                    | 2.63          | 1.00                       | 0.0263                 |
| Dichlone                    | 2.53          | 2.20                       | 0.0579                 |
| Dinitrobutylphenol          | 5.26          | 15.22                      | 0.8013                 |
| Diuron                      | 5.26          | 2.40                       | 0.1263                 |
| Endosulfan (I)              | 5.26          | 0.95                       | 0.0500                 |
| Lead Arsenate               | 2.63          | 3.80                       | 0.1000                 |
| Malathion                   | 5.26          | 0.01                       | 0.0005                 |
| MCPA                        | 5.26          | 0.33                       | 0.0176                 |
| Methoxychlor                | 2.63          | 0.01                       | 0.0003                 |
| Methylmercury Dicyandiamide | 10.53         | 0.01                       | 0.0011                 |
| Nabam                       | 2.63          | 2.40                       | 0.0632                 |
| Nitrate                     | 7.89          | 26.17                      | 2.0658                 |
| Oxydemetonmethyl            | 2.63          | 0.15                       | 0.0039                 |
| Ethyl Parathion             | 5.26          | 0.45                       | 0.0239                 |
| Phosphamidon                | 2.63          | 0.15                       | 0.0039                 |
| Sodium Arsenite             | 2.63          | 0.90                       | 0.0237                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## NORTH CAROLINA - 29 SITES

| Pesticide Name         | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|------------------------|---------------|----------------------------|------------------------|
| Aldrin                 | 6.90          | 1.75                       | 0.1207                 |
| Atrazine               | 6.90          | 2.75                       | 0.1897                 |
| Carbaryl               | 20.69         | 1.43                       | 0.2966                 |
| Ceresan RED            | 3.45          | 0.10                       | 0.0034                 |
| Chromophon             | 3.45          | 0.15                       | 0.0052                 |
| Copper Carbonate       | 3.45          | 0.60                       | 0.0207                 |
| Copper-8-Quinolinolate | 3.45          | 0.01                       | 0.0003                 |
| 2,4-D                  | 20.69         | 1.00                       | 0.2079                 |
| 2,4-DB                 | 3.45          | 0.07                       | 0.0024                 |
| DDT Technical          | 13.79         | 0.70                       | 0.0962                 |
| Diazinon               | 13.79         | 1.12                       | 0.1545                 |
| Dicamba                | 3.45          | 1.20                       | 0.0414                 |
| Dichlorpropene         | 3.45          | 20.00                      | 0.6897                 |
| Dieldrin               | 6.90          | 1.25                       | 0.0866                 |
| Dinitrobutylphenol     | 3.45          | 1.50                       | 0.0517                 |
| Diphenamid             | 6.90          | 1.07                       | 0.0741                 |
| EPTC                   | 3.45          | 4.00                       | 0.1379                 |
| Ethylene Dibromide     | 3.45          | 6.00                       | 0.2069                 |
| Lindane                | 3.45          | 0.01                       | 0.0003                 |
| Maleic Hydrazide       | 10.34         | 0.47                       | 0.0486                 |
| Ethyl Parathion        | 6.90          | 0.50                       | 0.0345                 |
| Methyl Parathion       | 3.45          | 0.83                       | 0.0286                 |
| Phorate                | 6.90          | 1.13                       | 0.0783                 |
| Sulfur                 | 3.45          | 11.10                      | 0.3828                 |
| TDE Technical          | 10.34         | 0.26                       | 0.0272                 |
| Thiram                 | 6.90          | 0.01                       | 0.0007                 |
| Toxaphene              | 6.90          | 8.65                       | 0.5966                 |
| Trifluralin            | 3.45          | 0.57                       | 0.0197                 |
| Vernolate              | 6.90          | 1.85                       | 0.1276                 |



TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## NORTH DAKOTA - 159 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate<br>(lbs/a) | Average Amount<br>(lbs/a) |
|-----------------------------|---------------|-------------------------------|---------------------------|
| Barban                      | 1.26          | 0.17                          | 0.0021                    |
| Captan                      | 0.63          | 0.01                          | 0.0001                    |
| Ceresan M                   | 0.63          | 0.01                          | 0.0001                    |
| Ceresan Red                 | 2.52          | 0.01                          | 0.0003                    |
| Ceresan L                   | 5.03          | 0.01                          | 0.0005                    |
| 2,4-D                       | 42.14         | 0.40                          | 0.1673                    |
| Dicamba                     | 1.89          | 0.08                          | 0.0016                    |
| Disulfoton                  | 0.63          | 3.00                          | 0.0189                    |
| Eddrin                      | 0.63          | 0.25                          | 0.0016                    |
| Heptachlor                  | 1.26          | 0.04                          | 0.0005                    |
| Lindane                     | 1.89          | 0.02                          | 0.0004                    |
| Malathion                   | 0.63          | 0.01                          | 0.0001                    |
| Maneb                       | 0.63          | 1.50                          | 0.0094                    |
| MCPA                        | 5.66          | 0.30                          | 0.0171                    |
| Methylmercury Dicyandiamide | 41.51         | 0.01                          | 0.0042                    |
| Phenylmercury Urea          | 0.63          | 0.01                          | 0.0001                    |
| PMA                         | 1.26          | 0.01                          | 0.0001                    |
| Polyram                     | 0.63          | 10.40                         | 0.0654                    |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## OHIO - 66 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Aldrin                      | 6.06          | 3.00                       | 0.1818                 |
| Amiben                      | 3.03          | 1.75                       | 0.0530                 |
| Atrazine                    | 12.12         | 1.20                       | 0.1455                 |
| Captan                      | 12.12         | 0.02                       | 0.0021                 |
| Ceresan M                   | 1.52          | 0.01                       | 0.0002                 |
| Copper Sulfate              | 1.52          | 1.60                       | 0.0242                 |
| 2,4-D                       | 19.70         | 0.44                       | 0.0859                 |
| Dalapon                     | 1.52          | 1.50                       | 0.0227                 |
| Diazinon                    | 1.52          | 0.50                       | 0.0076                 |
| Dichlone                    | 1.52          | 1.80                       | 0.0273                 |
| Dieldrin                    | 1.52          | 0.01                       | 0.0002                 |
| Dinocap                     | 1.52          | 0.01                       | 0.0002                 |
| Dithane M-45                | 1.52          | 0.30                       | 0.0045                 |
| Linuron                     | 1.52          | 0.75                       | 0.0114                 |
| Malathion                   | 10.61         | 0.01                       | 0.0011                 |
| Maneb                       | 3.03          | 0.75                       | 0.0227                 |
| Methylmercury Dicyandiamide | 1.52          | 0.05                       | 0.0008                 |
| NPA                         | 1.52          | 2.27                       | 0.0344                 |
| PCP                         | 1.52          | 1.50                       | 0.0227                 |
| Picloram                    | 1.52          | 0.25                       | 0.0038                 |
| Randox T                    | 1.52          | 1.40                       | 0.0212                 |
| Sulfur                      | 1.52          | 25.00                      | 0.3788                 |
| TDE Technical               | 1.52          | 0.80                       | 0.0121                 |
| Trifluralin                 | 1.52          | 1.00                       | 0.0152                 |
| Ziram                       | 1.52          | 0.80                       | 0.0121                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## OKLAHOMA - 65 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Cacodylic Acid              | 1.54          | 0.01                       | 0.0002                 |
| Captan                      | 4.62          | 0.01                       | 0.0005                 |
| Carbaryl                    | 1.54          | 0.30                       | 0.0046                 |
| Ceresan M                   | 20.00         | 0.01                       | 0.0020                 |
| Ceresan RED                 | 12.31         | 0.01                       | 0.0012                 |
| Chloroneb                   | 1.54          | 0.01                       | 0.0002                 |
| 2,4-D                       | 6.15          | 0.86                       | 0.0531                 |
| 2,4-DB                      | 4.62          | 0.50                       | 0.0231                 |
| Dieldrin                    | 4.62          | 0.01                       | 0.0005                 |
| Dimethoate                  | 1.54          | 0.50                       | 0.0077                 |
| Dinitrobutylphenol          | 1.54          | 2.00                       | 0.0308                 |
| Disulfoton                  | 7.69          | 0.58                       | 0.0445                 |
| Falone                      | 1.54          | 2.00                       | 0.0308                 |
| Methylmercury Dicyandiamide | 1.54          | 0.01                       | 0.0002                 |
| Nitrate                     | 10.77         | 16.64                      | 1.7923                 |
| Ethyl Parathion             | 3.08          | 0.75                       | 0.0231                 |
| Methyl Parathion            | 12.31         | 0.65                       | 0.0800                 |
| PCNB                        | 1.54          | 0.01                       | 0.0002                 |
| Phosphamidon                | 1.54          | 0.12                       | 0.0018                 |
| Thiram                      | 1.54          | 0.01                       | 0.0002                 |
| Trifluralin                 | 4.62          | 1.10                       | 0.0508                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## PENNSYLVANIA - 31 SITES

| Pesticide Name     | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|--------------------|---------------|----------------------------|------------------------|
| Atrazine           | 19.35         | 1.57                       | 0.3032                 |
| Azinphosmethyl     | 3.23          | 0.50                       | 0.0161                 |
| Captan             | 3.23          | 0.01                       | 0.0003                 |
| Carbaryl           | 3.23          | 0.32                       | 0.0103                 |
| Chlordane          | 3.23          | 1.20                       | 0.0387                 |
| Copper Sulfate     | 3.23          | 1.70                       | 0.0548                 |
| 2,4-D              | 16.13         | 0.92                       | 0.1484                 |
| DDT Tech.          | 9.68          | 0.83                       | 0.0806                 |
| Dicofol            | 3.23          | 0.42                       | 0.0135                 |
| Dinitrobutylphenol | 3.23          | 0.82                       | 0.0265                 |
| Dinitrocresol      | 3.23          | 3.00                       | 0.0968                 |
| Dinocap            | 3.23          | 0.44                       | 0.0142                 |
| Diuron             | 3.23          | 0.32                       | 0.0103                 |
| Lindane            | 3.23          | 0.02                       | 0.0006                 |
| Linuron            | 3.23          | 1.00                       | 0.0323                 |
| Maneb              | 3.23          | 7.00                       | 0.2258                 |
| Methyl Demeton     | 3.23          | 1.50                       | 0.0484                 |
| Nitrate            | 3.23          | 100.00                     | 3.2258                 |
| Ethyl Parathion    | 6.45          | 0.45                       | 0.0290                 |
| Phorate            | 3.23          | 12.50                      | 0.4032                 |
| Simazine           | 3.23          | 0.40                       | 0.0129                 |
| Sodium Arsenite    | 3.23          | 2.50                       | 0.0806                 |
| Trifluralin        | 3.23          | 0.75                       | 0.0242                 |

## RHODE ISLAND - 1 SITE

| Pesticide Name   | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|------------------|---------------|----------------------------|------------------------|
| Carbaryl         | 100.00        | 0.80                       | 0.8000                 |
| DDT Tech.        | 100.00        | 2.00                       | 2.0000                 |
| Disulfoton       | 100.00        | 2.00                       | 2.0000                 |
| Dithane M-45     | 100.00        | 6.40                       | 6.4000                 |
| EPTC             | 100.00        | 5.00                       | 5.0000                 |
| Oxydemetonmethyl | 100.00        | 0.80                       | 0.8000                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## SOUTH CAROLINA - 17 SITES

| Pesticide Name   | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|------------------|---------------|----------------------------|------------------------|
| Azodrin          | 5.88          | 0.40                       | 0.0235                 |
| Carbaryl         | 17.65         | 7.19                       | 1.2682                 |
| 2,4-D            | 11.76         | 0.40                       | 0.0471                 |
| DDT Technical    | 29.41         | 2.46                       | 0.7229                 |
| DEF              | 5.88          | 0.20                       | 0.0118                 |
| Demeton          | 5.88          | 1.60                       | 0.0941                 |
| Diuron           | 5.88          | 0.72                       | 0.0424                 |
| MSMA             | 5.88          | 0.45                       | 0.0265                 |
| Nabam            | 5.88          | 1.20                       | 0.0706                 |
| Ethyl Parathion  | 11.76         | 0.51                       | 0.0600                 |
| Methyl Parathion | 11.76         | 5.10                       | 0.6000                 |
| Phorate          | 5.88          | 0.20                       | 0.0118                 |
| TDE Technical    | 5.88          | 2.25                       | 0.1324                 |
| Toxaphene        | 17.65         | 6.17                       | 1.0894                 |
| Trifluralin      | 35.29         | 0.21                       | 0.0753                 |

## SOUTH DAKOTA - 106 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Atrazine                    | 1.89          | 1.40                       | 0.0264                 |
| Captan                      | 10.38         | 0.01                       | 0.0010                 |
| Carbaryl                    | 0.94          | 1.05                       | 0.0099                 |
| Ceresan M                   | 0.94          | 0.01                       | 0.0001                 |
| 2,4-D                       | 26.42         | 0.47                       | 0.1230                 |
| Dalapon                     | 0.94          | 0.74                       | 0.0070                 |
| Dieldrin                    | 1.89          | 0.01                       | 0.0002                 |
| Heptachlor                  | 3.77          | 0.02                       | 0.0007                 |
| Lindane                     | 0.94          | 0.01                       | 0.0001                 |
| Malathion                   | 6.60          | 0.01                       | 0.0007                 |
| MCPA                        | 4.72          | 0.20                       | 0.0095                 |
| Methoxychlor                | 3.77          | 0.01                       | 0.0004                 |
| Methylmercury Dicyandiamide | 10.38         | 0.01                       | 0.0010                 |
| Phorate                     | 0.94          | 0.60                       | 0.0057                 |
| Ramrod                      | 0.94          | 1.00                       | 0.0094                 |
| Thiram                      | 0.94          | 0.01                       | 0.0001                 |



TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## TENNESSEE - 28 SITES

| Pesticide Name              | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------------------|---------------|----------------------------|------------------------|
| Atrazine                    | 21.43         | 1.98                       | 0.4250                 |
| Bidrin                      | 3.57          | 0.54                       | 0.0193                 |
| Captan                      | 10.71         | 0.01                       | 0.0011                 |
| Ceresan M                   | 7.14          | 0.01                       | 0.0007                 |
| Ceresan Red                 | 3.57          | 0.01                       | 0.0004                 |
| Cotoran                     | 7.14          | 0.78                       | 0.0557                 |
| 2,4-DB                      | 7.14          | 0.43                       | 0.0307                 |
| Disulfoton                  | 3.57          | 0.01                       | 0.0004                 |
| Diuron                      | 7.14          | 0.06                       | 0.0046                 |
| Linuron                     | 7.14          | 0.75                       | 0.0536                 |
| Malathion                   | 3.57          | 0.01                       | 0.0004                 |
| Methylmercury Dicyandiamide | 3.57          | 0.01                       | 0.0004                 |
| MSMA                        | 3.57          | 0.46                       | 0.0164                 |
| Nitrate                     | 7.14          | 250.00                     | 17.8571                |
| Nitralin                    | 3.57          | 0.15                       | 0.0054                 |
| PCNB                        | 3.57          | 0.01                       | 0.0004                 |
| Trifluralin                 | 14.29         | 0.38                       | 0.0543                 |

## UTAH - 12 SITES

| Pesticide Name  | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------|---------------|----------------------------|------------------------|
| Dichloropropene | 8.33          | 180.00                     | 15.0000                |
| Heptachlor      | 8.33          | 0.34                       | 0.0283                 |

## VERMONT - 5 SITES NO PESTICIDES USED

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## VIRGINIA - 20 SITES

| Pesticide Name     | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|--------------------|---------------|----------------------------|------------------------|
| Atrazine           | 5.00          | 4.00                       | 0.2000                 |
| Azinphosmethyl     | 5.00          | 2.00                       | 0.1000                 |
| Carbaryl           | 5.00          | 2.75                       | 0.1375                 |
| Copper Oxide       | 10.00         | 2.60                       | 0.2600                 |
| 2,4-D              | 10.00         | 1.12                       | 0.1125                 |
| 2,4-DB             | 5.00          | 0.20                       | 0.0100                 |
| DDT Tech.          | 5.00          | 2.00                       | 0.1000                 |
| Diazinon           | 5.00          | 0.50                       | 0.0250                 |
| Dinitrobutylphenol | 5.00          | 1.50                       | 0.0750                 |
| Diphenamid         | 5.00          | 4.00                       | 0.2000                 |
| Disulfoton         | 10.00         | 6.80                       | 0.6800                 |
| Ethylene Dibromide | 5.00          | 23.24                      | 1.1620                 |
| Dichloropropane    | 5.00          | 54.43                      | 2.7215                 |
| Malathion          | 5.00          | 0.95                       | 0.0475                 |
| Methoxychlor       | 5.00          | 1.00                       | 0.0500                 |
| Ethyl Parathion    | 5.00          | 6.00                       | 0.3000                 |
| Phorate            | 5.00          | 3.00                       | 0.1500                 |
| Sulfur             | 5.00          | 57.00                      | 2.8500                 |
| Vernolate          | 5.00          | 2.40                       | 0.1200                 |

## WASHINGTON - 2 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Ceresan L      | 50.00         | 0.01                       | 0.0050                 |
| 2,4-D          | 50.00         | 1.00                       | 0.5000                 |

## WEST VIRGINIA - 5 SITES

| Pesticide Name  | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|-----------------|---------------|----------------------------|------------------------|
| Azinphosmethyl  | 20.00         | 0.50                       | 0.1000                 |
| Ethyl Parathion | 20.00         | 1.50                       | 0.3000                 |

TABLE 11. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON CROPLAND (CONT)

## WISCONSIN - 68 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Atrazine       | 29.41         | 2.61                       | 0.7684                 |
| Ceresan Red    | 1.47          | 0.01                       | 0.0001                 |
| 2,4-D          | 2.94          | 0.75                       | 0.0221                 |
| Ramrod         | 1.47          | 2.00                       | 0.0294                 |
| Trifluralin    | 1.47          | 2.00                       | 0.0294                 |

WYOMING - 17 SITES NO PESTICIDES USED

TABLE 12. SUMMARY OF PESTICIDES USED IN YEAR OF SAMPLING ON NONCROPLAND

ARIZONA - 43 SITES NO PESTICIDES USED

GEORGIA - 15 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Mirex          | 6.67          | 0.01                       | 0.0007                 |

IDAHO - 26 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| Malathion      | 3.85          | 0.61                       | 0.0235                 |

IOWA - 7 SITES NO PESTICIDES USED

MAINE - 11 SITES NO PESTICIDES USED

MARYLAND - 3 SITES NO PESTICIDES USED

NEBRASKA - 19 SITES

| Pesticide Name | Pct. of Sites | Average Appl. Rate (lbs/a) | Average Amount (lbs/a) |
|----------------|---------------|----------------------------|------------------------|
| 2,4-D          | 5.26          | 2.00                       | 0.1053                 |

VIRGINIA - 14 SITES NO PESTICIDES USED

WASHINGTON - 11 SITES NO PESTICIDES USED

WEST VIRGINIA - 9 SITES NO PESTICIDES USED

WYOMING - 37 SITES NO PESTICIDES USED

TABLE 13. COMPARISON OF RESIDUES WITH USE RECORDS FOR STATES WITH HIGHEST ARSENIC RESIDUES

| State        | Average Amount (lbs/a)    | Pct. of Sites | Mean Pest. Level (ppm) | Pct. of Times Found |
|--------------|---------------------------|---------------|------------------------|---------------------|
| Arkansas     | 0.13 <sup>1</sup>         | 4.4           | 9.0                    | 100.0               |
| Kentucky     | No Arsenic Compounds Used |               | 8.4                    | 100.0               |
| New England  | 0.88 <sup>2</sup>         | 10.0          | 10.2                   | 100.0               |
| New York     | 0.12 <sup>3</sup>         | 5.3           | 9.4                    | 94.6                |
| North Dakota | No Arsenic Compounds Used |               | 8.5                    | 100.0               |
| Ohio         | No Arsenic Compounds Used |               | 11.2                   | 100.0               |
| Pennsylvania | 0.08 <sup>2</sup>         | 3.2           | 10.8                   | 100.0               |

<sup>1</sup> Calculated for DSMA

<sup>2</sup> Calculated for Sodium Arsenite

<sup>3</sup> Calculated for Sodium Arsenite and Lead Arsenate



TABLE 14. COMPARISON OF RESIDUES WITH USE RECORDS FOR STATES WITH HIGHEST DDTR RESIDUES

| State          | Average<br>Amount<br>lbs/a) | Pct. of<br>Sites | Mean Pest.<br>Level<br>(ppm) | Pct. of<br>Times Found |
|----------------|-----------------------------|------------------|------------------------------|------------------------|
| Alabama        | 4.20                        | 39.1             | 1.13                         | 90.9                   |
| California     | 0.38                        | 13.6             | 1.47                         | 84.6                   |
| Michigan       | 0.03                        | 2.0              | 2.09                         | 23.5                   |
| Mississippi    | 1.07                        | 31.0             | 2.06                         | 89.7                   |
| South Carolina | 0.72                        | 29.4             | 1.17                         | 88.2                   |

TABLE 15. COMPARISON OF RESIDUES WITH USE RECORDS FOR STATES WITH HIGHEST DIELDRIN RESIDUES

| State                | Average Amount<br>(lbs/a) | Pct. of Sites | Mean Pest. Level<br>(ppm) | Pct. of Times Found |
|----------------------|---------------------------|---------------|---------------------------|---------------------|
| Florida              | 0.00                      | 0.0           | 0.08                      | 38.9                |
| Illinois             | 0.29 (A)                  | 19.2          | 0.11                      | 61.3                |
|                      | 0.01 (D)                  | 2.1           |                           |                     |
| Iowa                 | 0.06 (A)                  | 8.6           | 0.06                      | 53.6                |
|                      | <0.01 (D)                 | 0.7           |                           |                     |
| Kentucky             | 0.19 (A)                  | 9.7           | 0.06                      | 54.8                |
| North Carolina       | 0.12 (A)                  | 6.9           | 0.08                      | 32.3                |
|                      | 0.09 (D)                  | 6.9           |                           |                     |
| Virginia/W. Virginia | 0.00                      | 0.0           | 0.07                      | 25.9                |

(A) = Aldrin

(D) = Dieldrin

TABLE 16 FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL

## ALABAMA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.70                    | 1.45                      | 1.18                    |
|           | 20         | 2.33                    | 2.07                      | 1.78                    |
|           | 30         | 2.94                    | 2.67                      | 2.38                    |
|           | 40         | 3.62                    | 3.33                      | 3.03                    |
|           | 50         | 4.42                    | 4.09                      | 3.76                    |
|           | 60         | 5.47                    | 5.01                      | 4.63                    |
|           | 70         | 6.94                    | 6.24                      | 5.71                    |
|           | 80         | 9.25                    | 8.07                      | 7.23                    |
|           | 90         | 13.91                   | 11.52                     | 9.96                    |
|           | 95         | 19.53                   | 15.46                     | 12.93                   |
| pp'DDE    | 10         | 0.02                    | 0.01                      | 0.00                    |
|           | 20         | 0.03                    | 0.02                      | 0.01                    |
|           | 30         | 0.04                    | 0.03                      | 0.01                    |
|           | 40         | 0.07                    | 0.04                      | 0.02                    |
|           | 50         | 0.10                    | 0.07                      | 0.04                    |
|           | 60         | 0.16                    | 0.11                      | 0.07                    |
|           | 70         | 0.28                    | 0.18                      | 0.12                    |
|           | 80         | 0.58                    | 0.31                      | 0.21                    |
|           | 90         | 1.76                    | 0.68                      | 0.40                    |
|           | 95         | 4.48                    | 1.31                      | 0.67                    |
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.02                    | 0.01                      | 0.01                    |
|           | 50         | 0.03                    | 0.02                      | 0.01                    |
|           | 60         | 0.04                    | 0.03                      | 0.03                    |
|           | 70         | 0.08                    | 0.06                      | 0.05                    |
|           | 80         | 0.16                    | 0.12                      | 0.09                    |
|           | 90         | 0.49                    | 0.29                      | 0.20                    |
|           | 95         | 1.21                    | 0.62                      | 0.38                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## ALABAMA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.03                    | 0.01                      | 0.01                    |
|           | 20         | 0.05                    | 0.04                      | 0.02                    |
|           | 30         | 0.10                    | 0.07                      | 0.04                    |
|           | 40         | 0.16                    | 0.12                      | 0.09                    |
|           | 50         | 0.27                    | 0.21                      | 0.15                    |
|           | 60         | 0.45                    | 0.35                      | 0.27                    |
|           | 70         | 0.83                    | 0.60                      | 0.46                    |
|           | 80         | 1.75                    | 1.16                      | 0.84                    |
|           | 90         | 5.15                    | 2.87                      | 1.88                    |
|           | 95         | 12.69                   | 6.06                      | 3.59                    |
| DDTR      | 10         | 0.05                    | 0.03                      | 0.02                    |
|           | 20         | 0.11                    | 0.08                      | 0.05                    |
|           | 30         | 0.19                    | 0.14                      | 0.09                    |
|           | 40         | 0.30                    | 0.23                      | 0.17                    |
|           | 50         | 0.48                    | 0.38                      | 0.29                    |
|           | 60         | 0.77                    | 0.61                      | 0.48                    |
|           | 70         | 1.34                    | 1.01                      | 0.79                    |
|           | 80         | 2.66                    | 1.84                      | 1.38                    |
|           | 90         | 7.09                    | 4.20                      | 2.87                    |
|           | 95         | 16.12                   | 8.33                      | 5.19                    |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.01                    |
|           | 50         | 0.02                    | 0.01                      | 0.01                    |
|           | 60         | 0.02                    | 0.02                      | 0.02                    |
|           | 70         | 0.04                    | 0.03                      | 0.03                    |
|           | 80         | 0.07                    | 0.05                      | 0.05                    |
|           | 90         | 0.15                    | 0.11                      | 0.09                    |
|           | 95         | 0.31                    | 0.20                      | 0.15                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## ARKANSAS

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 3.39                    | 3.25                      | 3.09                    |
|           | 20         | 4.42                    | 4.28                      | 4.13                    |
|           | 30         | 5.37                    | 5.22                      | 5.08                    |
|           | 40         | 6.34                    | 6.19                      | 6.05                    |
|           | 50         | 7.42                    | 7.26                      | 7.10                    |
|           | 60         | 8.72                    | 8.51                      | 8.32                    |
|           | 70         | 10.38                   | 10.10                     | 9.84                    |
|           | 80         | 12.75                   | 12.32                     | 11.94                   |
|           | 90         | 17.01                   | 16.25                     | 15.58                   |
|           | 95         | 21.59                   | 20.41                     | 19.39                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.01                    |
|           | 50         | 0.02                    | 0.02                      | 0.02                    |
|           | 60         | 0.04                    | 0.04                      | 0.03                    |
|           | 70         | 0.08                    | 0.08                      | 0.07                    |
|           | 80         | 0.19                    | 0.17                      | 0.15                    |
|           | 90         | 0.61                    | 0.50                      | 0.42                    |
|           | 95         | 1.60                    | 1.22                      | 0.97                    |
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.01                    |
|           | 70         | 0.03                    | 0.02                      | 0.02                    |
|           | 80         | 0.06                    | 0.05                      | 0.04                    |
|           | 90         | 0.22                    | 0.16                      | 0.12                    |
|           | 95         | 0.67                    | 0.41                      | 0.28                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## ARKANSAS (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.01                    |
|           | 40         | 0.02                    | 0.02                      | 0.01                    |
|           | 50         | 0.04                    | 0.03                      | 0.03                    |
|           | 60         | 0.07                    | 0.06                      | 0.05                    |
|           | 70         | 0.14                    | 0.12                      | 0.11                    |
|           | 80         | 0.31                    | 0.26                      | 0.23                    |
|           | 90         | 1.01                    | 0.79                      | 0.64                    |
|           | 95         | 2.71                    | 1.95                      | 1.48                    |
| DDTR      | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.02                    | 0.01                      | 0.01                    |
|           | 30         | 0.03                    | 0.03                      | 0.02                    |
|           | 40         | 0.06                    | 0.05                      | 0.04                    |
|           | 50         | 0.10                    | 0.09                      | 0.08                    |
|           | 60         | 0.18                    | 0.17                      | 0.15                    |
|           | 70         | 0.35                    | 0.32                      | 0.29                    |
|           | 80         | 0.75                    | 0.66                      | 0.58                    |
|           | 90         | 2.24                    | 1.83                      | 1.54                    |
|           | 95         | 5.53                    | 4.27                      | 3.41                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.03                    | 0.02                      | 0.01                    |
|           | 90         | 0.09                    | 0.05                      | 0.04                    |
|           | 95         | 0.41                    | 0.14                      | 0.09                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

ARKANSAS (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.01                    |
|           | 60         | 0.02                    | 0.02                      | 0.01                    |
|           | 70         | 0.04                    | 0.03                      | 0.03                    |
|           | 80         | 0.09                    | 0.07                      | 0.06                    |
|           | 90         | 0.28                    | 0.19                      | 0.14                    |
|           | 95         | 0.78                    | 0.45                      | 0.30                    |
| Toxaphene | 10         | 0.02                    | 0.00                      | 0.00                    |
|           | 20         | 0.04                    | 0.01                      | 0.00                    |
|           | 30         | 0.07                    | 0.01                      | 0.00                    |
|           | 40         | 0.10                    | 0.02                      | 0.00                    |
|           | 50         | 0.15                    | 0.04                      | 0.00                    |
|           | 60         | 0.21                    | 0.08                      | 0.00                    |
|           | 70         | 0.31                    | 0.14                      | 0.01                    |
|           | 80         | 0.51                    | 0.29                      | 0.04                    |
|           | 90         | 1.20                    | 0.77                      | 0.37                    |
|           | 95         | 4.68                    | 1.72                      | 1.11                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## CALIFORNIA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.58                    | 1.50                      | 1.42                    |
|           | 20         | 2.17                    | 2.09                      | 2.01                    |
|           | 30         | 2.73                    | 2.65                      | 2.56                    |
|           | 40         | 3.33                    | 3.25                      | 3.16                    |
|           | 50         | 4.02                    | 3.92                      | 3.83                    |
|           | 60         | 4.86                    | 4.74                      | 4.62                    |
|           | 70         | 5.98                    | 5.81                      | 5.65                    |
|           | 80         | 7.65                    | 7.36                      | 7.11                    |
|           | 90         | 10.77                   | 10.24                     | 9.77                    |
|           | 95         | 14.29                   | 13.44                     | 12.69                   |
| op'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.05                    | 0.04                      | 0.03                    |
|           | 95         | 0.13                    | 0.08                      | 0.05                    |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.01                    |
|           | 40         | 0.03                    | 0.02                      | 0.02                    |
|           | 50         | 0.05                    | 0.04                      | 0.04                    |
|           | 60         | 0.09                    | 0.08                      | 0.07                    |
|           | 70         | 0.17                    | 0.15                      | 0.14                    |
|           | 80         | 0.37                    | 0.33                      | 0.30                    |
|           | 90         | 1.12                    | 0.96                      | 0.83                    |
|           | 95         | 2.80                    | 2.31                      | 1.93                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## CALIFORNIA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.01                    |
|           | 70         | 0.03                    | 0.02                      | 0.02                    |
|           | 80         | 0.06                    | 0.05                      | 0.04                    |
|           | 90         | 0.20                    | 0.16                      | 0.13                    |
|           | 95         | 0.58                    | 0.41                      | 0.31                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.01                    |
|           | 40         | 0.02                    | 0.02                      | 0.02                    |
|           | 50         | 0.04                    | 0.03                      | 0.03                    |
|           | 60         | 0.07                    | 0.06                      | 0.06                    |
|           | 70         | 0.14                    | 0.13                      | 0.12                    |
|           | 80         | 0.32                    | 0.29                      | 0.27                    |
|           | 90         | 1.03                    | 0.92                      | 0.83                    |
|           | 95         | 2.73                    | 2.37                      | 2.07                    |
| DDTR      | 10         | 0.01                    | 0.01                      | 0.00                    |
|           | 20         | 0.02                    | 0.02                      | 0.01                    |
|           | 30         | 0.04                    | 0.03                      | 0.03                    |
|           | 40         | 0.07                    | 0.07                      | 0.06                    |
|           | 50         | 0.14                    | 0.13                      | 0.12                    |
|           | 60         | 0.26                    | 0.24                      | 0.22                    |
|           | 70         | 0.51                    | 0.46                      | 0.43                    |
|           | 80         | 1.15                    | 1.02                      | 0.92                    |
|           | 90         | 3.61                    | 3.07                      | 2.65                    |
|           | 95         | 9.30                    | 7.60                      | 6.31                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## CALIFORNIA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.00                    |
|           | 90         | 0.04                    | 0.02                      | 0.02                    |
|           | 95         | 0.21                    | 0.08                      | 0.05                    |
| op'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.07                    | 0.05                      | 0.04                    |
|           | 95         | 0.25                    | 0.17                      | 0.13                    |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.01                    |
|           | 50         | 0.02                    | 0.01                      | 0.01                    |
|           | 60         | 0.03                    | 0.02                      | 0.02                    |
|           | 70         | 0.05                    | 0.04                      | 0.04                    |
|           | 80         | 0.10                    | 0.09                      | 0.08                    |
|           | 90         | 0.26                    | 0.22                      | 0.19                    |
|           | 95         | 0.61                    | 0.48                      | 0.39                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

CALIFORNIA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Toxaphene | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.02                    | 0.01                      | 0.00                    |
|           | 60         | 0.04                    | 0.01                      | 0.00                    |
|           | 70         | 0.08                    | 0.03                      | 0.00                    |
|           | 80         | 0.16                    | 0.08                      | 0.02                    |
|           | 90         | 0.47                    | 0.32                      | 0.18                    |
|           | 95         | 1.86                    | 0.94                      | 0.62                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL

## COLORADO

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 2.45                    | 2.39                      | 2.32                    |
|           | 20         | 2.96                    | 2.90                      | 2.84                    |
|           | 30         | 3.39                    | 3.33                      | 3.28                    |
|           | 40         | 3.81                    | 3.76                      | 3.70                    |
|           | 50         | 4.26                    | 4.20                      | 4.15                    |
|           | 60         | 4.77                    | 4.70                      | 4.64                    |
|           | 70         | 5.39                    | 5.30                      | 5.22                    |
|           | 80         | 6.22                    | 6.10                      | 5.99                    |
|           | 90         | 7.61                    | 7.41                      | 7.23                    |
|           | 95         | 8.98                    | 8.70                      | 8.44                    |

TABLE 1b. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## FLORIDA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.28                    | 0.23                      | 0.17                    |
|           | 20         | 0.37                    | 0.32                      | 0.25                    |
|           | 30         | 0.45                    | 0.40                      | 0.34                    |
|           | 40         | 0.54                    | 0.49                      | 0.43                    |
|           | 50         | 0.64                    | 0.58                      | 0.53                    |
|           | 60         | 0.78                    | 0.70                      | 0.64                    |
|           | 70         | 0.97                    | 0.86                      | 0.78                    |
|           | 80         | 1.27                    | 1.09                      | 0.96                    |
|           | 90         | 1.89                    | 1.50                      | 1.28                    |
|           | 95         | 2.62                    | 1.96                      | 1.60                    |
| Chlordane | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.02                    | 0.01                      | 0.00                    |
|           | 40         | 0.03                    | 0.02                      | 0.01                    |
|           | 50         | 0.05                    | 0.03                      | 0.02                    |
|           | 60         | 0.09                    | 0.06                      | 0.03                    |
|           | 70         | 0.17                    | 0.12                      | 0.08                    |
|           | 80         | 0.40                    | 0.27                      | 0.19                    |
|           | 90         | 1.61                    | 0.81                      | 0.52                    |
|           | 95         | 5.38                    | 2.00                      | 1.10                    |
| p'DDE     | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.01                    |
|           | 50         | 0.03                    | 0.02                      | 0.01                    |
|           | 60         | 0.05                    | 0.04                      | 0.03                    |
|           | 70         | 0.10                    | 0.07                      | 0.05                    |
|           | 80         | 0.24                    | 0.15                      | 0.11                    |
|           | 90         | 0.92                    | 0.47                      | 0.29                    |
|           | 95         | 2.88                    | 1.17                      | 0.64                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## FLORIDA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.02                    | 0.01                      | 0.00                    |
|           | 70         | 0.03                    | 0.02                      | 0.01                    |
|           | 80         | 0.08                    | 0.05                      | 0.03                    |
|           | 90         | 0.45                    | 0.18                      | 0.10                    |
|           | 95         | 1.98                    | 0.50                      | 0.24                    |
| pp'DDT    | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.00                    |
|           | 30         | 0.02                    | 0.01                      | 0.01                    |
|           | 40         | 0.04                    | 0.03                      | 0.01                    |
|           | 50         | 0.07                    | 0.05                      | 0.03                    |
|           | 60         | 0.13                    | 0.09                      | 0.06                    |
|           | 70         | 0.26                    | 0.17                      | 0.12                    |
|           | 80         | 0.65                    | 0.37                      | 0.25                    |
|           | 90         | 2.43                    | 1.07                      | 0.62                    |
|           | 95         | 7.44                    | 2.57                      | 1.29                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.01                    |
|           | 30         | 0.03                    | 0.02                      | 0.01                    |
|           | 40         | 0.05                    | 0.04                      | 0.03                    |
|           | 50         | 0.10                    | 0.08                      | 0.06                    |
|           | 60         | 0.19                    | 0.15                      | 0.12                    |
|           | 70         | 0.39                    | 0.31                      | 0.25                    |
|           | 80         | 0.94                    | 0.70                      | 0.54                    |
|           | 90         | 3.34                    | 2.16                      | 1.52                    |
|           | 95         | 9.62                    | 5.50                      | 3.53                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## FLORIDA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.02                    | 0.01                      | 0.00                    |
|           | 60         | 0.03                    | 0.02                      | 0.01                    |
|           | 70         | 0.06                    | 0.04                      | 0.02                    |
|           | 80         | 0.18                    | 0.09                      | 0.05                    |
|           | 90         | 1.12                    | 0.32                      | 0.16                    |
|           | 95         | 5.34                    | 0.92                      | 0.37                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## GEORGIA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.74                    | 0.68                      | 0.62                    |
|           | 20         | 1.03                    | 0.96                      | 0.90                    |
|           | 30         | 1.31                    | 1.24                      | 1.17                    |
|           | 40         | 1.61                    | 1.54                      | 1.47                    |
|           | 50         | 1.96                    | 1.88                      | 1.80                    |
|           | 60         | 2.41                    | 2.30                      | 2.21                    |
|           | 70         | 3.01                    | 2.86                      | 2.73                    |
|           | 80         | 3.93                    | 3.68                      | 3.48                    |
|           | 90         | 5.71                    | 5.23                      | 4.85                    |
|           | 95         | 7.78                    | 6.99                      | 6.37                    |
| pp'DDE    | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.01                    |
|           | 30         | 0.02                    | 0.02                      | 0.01                    |
|           | 40         | 0.04                    | 0.03                      | 0.03                    |
|           | 50         | 0.06                    | 0.05                      | 0.04                    |
|           | 60         | 0.10                    | 0.08                      | 0.07                    |
|           | 70         | 0.16                    | 0.13                      | 0.11                    |
|           | 80         | 0.31                    | 0.24                      | 0.19                    |
|           | 90         | 0.78                    | 0.53                      | 0.39                    |
|           | 95         | 1.68                    | 1.03                      | 0.70                    |
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.01                    |
|           | 60         | 0.02                    | 0.02                      | 0.01                    |
|           | 70         | 0.05                    | 0.03                      | 0.02                    |
|           | 80         | 0.10                    | 0.07                      | 0.05                    |
|           | 90         | 0.38                    | 0.20                      | 0.13                    |
|           | 95         | 1.16                    | 0.48                      | 0.27                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## GEORGIA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.02                    | 0.01                      | 0.00                    |
|           | 20         | 0.04                    | 0.02                      | 0.01                    |
|           | 30         | 0.06                    | 0.04                      | 0.03                    |
|           | 40         | 0.10                    | 0.08                      | 0.05                    |
|           | 50         | 0.17                    | 0.13                      | 0.09                    |
|           | 60         | 0.28                    | 0.22                      | 0.17                    |
|           | 70         | 0.51                    | 0.38                      | 0.29                    |
|           | 80         | 1.09                    | 0.72                      | 0.53                    |
|           | 90         | 3.28                    | 1.79                      | 1.17                    |
|           | 95         | 8.26                    | 3.78                      | 2.22                    |
| DDTR      | 10         | 0.02                    | 0.01                      | 0.01                    |
|           | 20         | 0.06                    | 0.04                      | 0.02                    |
|           | 30         | 0.10                    | 0.07                      | 0.05                    |
|           | 40         | 0.18                    | 0.13                      | 0.09                    |
|           | 50         | 0.30                    | 0.23                      | 0.17                    |
|           | 60         | 0.54                    | 0.41                      | 0.31                    |
|           | 70         | 1.02                    | 0.74                      | 0.56                    |
|           | 80         | 2.26                    | 1.48                      | 1.06                    |
|           | 90         | 7.03                    | 3.89                      | 2.51                    |
|           | 95         | 18.16                   | 8.65                      | 5.04                    |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.01                    |
|           | 60         | 0.02                    | 0.02                      | 0.01                    |
|           | 70         | 0.05                    | 0.03                      | 0.02                    |
|           | 80         | 0.12                    | 0.07                      | 0.05                    |
|           | 90         | 0.46                    | 0.22                      | 0.14                    |
|           | 95         | 1.52                    | 0.54                      | 0.29                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## GEORGIA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Toxaphene | 10         | 0.10                    | 0.06                      | 0.02                    |
|           | 20         | 0.16                    | 0.10                      | 0.04                    |
|           | 30         | 0.22                    | 0.15                      | 0.08                    |
|           | 40         | 0.28                    | 0.20                      | 0.12                    |
|           | 50         | 0.36                    | 0.28                      | 0.18                    |
|           | 60         | 0.47                    | 0.38                      | 0.27                    |
|           | 70         | 0.63                    | 0.53                      | 0.42                    |
|           | 80         | 0.91                    | 0.79                      | 0.68                    |
|           | 90         | 1.72                    | 1.37                      | 1.16                    |
|           | 95         | 3.10                    | 2.14                      | 1.70                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## IDAHO

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Lower<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.99                    | 0.76                      | 0.52                    |
|           | 20         | 1.41                    | 1.15                      | 0.86                    |
|           | 30         | 1.82                    | 1.55                      | 1.24                    |
|           | 40         | 2.28                    | 2.00                      | 1.68                    |
|           | 50         | 2.85                    | 2.53                      | 2.21                    |
|           | 60         | 3.62                    | 3.21                      | 2.85                    |
|           | 70         | 4.79                    | 4.14                      | 3.67                    |
|           | 80         | 6.79                    | 5.57                      | 4.81                    |
|           | 90         | 11.22                   | 8.41                      | 6.88                    |
|           | 95         | 17.10                   | 11.81                     | 9.19                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.03                    | 0.01                      | 0.00                    |
|           | 90         | 0.24                    | 0.06                      | 0.02                    |
|           | 95         | 6.24                    | 0.27                      | 0.10                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.02                    | 0.01                      | 0.00                    |
|           | 70         | 0.03                    | 0.01                      | 0.00                    |
|           | 80         | 0.06                    | 0.04                      | 0.01                    |
|           | 90         | 0.25                    | 0.13                      | 0.08                    |
|           | 95         | 1.29                    | 0.39                      | 0.22                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## ILLINOIS

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Aldrin    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.01                    |
|           | 70         | 0.02                    | 0.02                      | 0.02                    |
|           | 80         | 0.07                    | 0.06                      | 0.05                    |
|           | 90         | 0.34                    | 0.28                      | 0.24                    |
|           | 95         | 1.33                    | 1.00                      | 0.79                    |
| Arsenic   | 10         | 2.65                    | 2.59                      | 2.53                    |
|           | 20         | 3.56                    | 3.50                      | 3.44                    |
|           | 30         | 4.40                    | 4.34                      | 4.28                    |
|           | 40         | 5.29                    | 5.22                      | 5.16                    |
|           | 50         | 6.28                    | 6.20                      | 6.13                    |
|           | 60         | 7.46                    | 7.37                      | 7.28                    |
|           | 70         | 9.00                    | 8.86                      | 8.73                    |
|           | 80         | 11.20                   | 11.00                     | 10.80                   |
|           | 90         | 15.21                   | 14.83                     | 14.48                   |
|           | 95         | 19.57                   | 18.99                     | 18.45                   |
| Chlordane | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.03                    | 0.02                      | 0.01                    |
|           | 70         | 0.06                    | 0.04                      | 0.02                    |
|           | 80         | 0.16                    | 0.13                      | 0.09                    |
|           | 90         | 0.76                    | 0.58                      | 0.46                    |
|           | 95         | 3.27                    | 2.03                      | 1.43                    |



TABLE<sup>16</sup>. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## ILLINOIS (CONT)

| Pesticide  | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|------------|------------|-------------------------|---------------------------|-------------------------|
| DDTR       | 10         | 0.00                    | 0.00                      | 0.00                    |
|            | 20         | 0.00                    | 0.00                      | 0.00                    |
|            | 30         | 0.00                    | 0.00                      | 0.00                    |
|            | 40         | 0.00                    | 0.00                      | 0.00                    |
|            | 50         | 0.00                    | 0.00                      | 0.00                    |
|            | 60         | 0.00                    | 0.00                      | 0.00                    |
|            | 70         | 0.00                    | 0.00                      | 0.00                    |
|            | 80         | 0.01                    | 0.00                      | 0.00                    |
|            | 90         | 0.02                    | 0.01                      | 0.00                    |
|            | 95         | 0.05                    | 0.03                      | 0.02                    |
| Dieldrin   | 10         | 0.00                    | 0.00                      | 0.00                    |
|            | 20         | 0.00                    | 0.00                      | 0.00                    |
|            | 30         | 0.01                    | 0.01                      | 0.01                    |
|            | 40         | 0.02                    | 0.01                      | 0.01                    |
|            | 50         | 0.03                    | 0.02                      | 0.02                    |
|            | 60         | 0.05                    | 0.04                      | 0.03                    |
|            | 70         | 0.09                    | 0.08                      | 0.07                    |
|            | 80         | 0.18                    | 0.15                      | 0.13                    |
|            | 90         | 0.54                    | 0.42                      | 0.33                    |
|            | 95         | 1.36                    | 0.95                      | 0.71                    |
| Heptachlor | 10         | 0.00                    | 0.00                      | 0.00                    |
|            | 20         | 0.00                    | 0.00                      | 0.00                    |
|            | 30         | 0.00                    | 0.00                      | 0.00                    |
|            | 40         | 0.00                    | 0.00                      | 0.00                    |
|            | 50         | 0.00                    | 0.00                      | 0.00                    |
|            | 60         | 0.00                    | 0.00                      | 0.00                    |
|            | 70         | 0.00                    | 0.00                      | 0.00                    |
|            | 80         | 0.01                    | 0.01                      | 0.00                    |
|            | 90         | 0.06                    | 0.04                      | 0.03                    |
|            | 95         | 0.31                    | 0.18                      | 0.13                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## ILLINOIS (CONT)

| Pesticide          | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|--------------------|------------|-------------------------|---------------------------|-------------------------|
| Heptachlor Epoxide | 10         | 0.00                    | 0.00                      | 0.00                    |
|                    | 20         | 0.00                    | 0.00                      | 0.00                    |
|                    | 30         | 0.00                    | 0.00                      | 0.00                    |
|                    | 40         | 0.00                    | 0.00                      | 0.00                    |
|                    | 50         | 0.00                    | 0.00                      | 0.00                    |
|                    | 60         | 0.00                    | 0.00                      | 0.00                    |
|                    | 70         | 0.01                    | 0.01                      | 0.01                    |
|                    | 80         | 0.02                    | 0.01                      | 0.01                    |
|                    | 90         | 0.05                    | 0.04                      | 0.04                    |
|                    | 95         | 0.13                    | 0.10                      | 0.08                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## INDIANA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Aldrin    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.02                    | 0.02                      | 0.01                    |
|           | 95         | 0.15                    | 0.09                      | 0.06                    |
| Arsenic   | 10         | 3.65                    | 3.44                      | 3.20                    |
|           | 20         | 4.60                    | 4.39                      | 4.17                    |
|           | 30         | 5.45                    | 5.25                      | 5.03                    |
|           | 40         | 6.30                    | 6.10                      | 5.90                    |
|           | 50         | 7.24                    | 7.03                      | 6.82                    |
|           | 60         | 8.35                    | 8.10                      | 7.86                    |
|           | 70         | 9.77                    | 9.42                      | 9.12                    |
|           | 80         | 11.77                   | 11.25                     | 10.80                   |
|           | 90         | 15.30                   | 14.38                     | 13.62                   |
|           | 95         | 19.03                   | 17.62                     | 16.48                   |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.02                      | 0.01                    |
|           | 90         | 0.10                    | 0.07                      | 0.05                    |
|           | 95         | 0.42                    | 0.20                      | 0.13                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## IOWA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Aldrin    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.07                    | 0.06                      | 0.05                    |
|           | 95         | 0.24                    | 0.18                      | 0.15                    |
| Arsenic   | 10         | 2.65                    | 2.58                      | 2.50                    |
|           | 20         | 3.47                    | 3.40                      | 3.33                    |
|           | 30         | 4.22                    | 4.16                      | 4.08                    |
|           | 40         | 5.00                    | 4.93                      | 4.86                    |
|           | 50         | 5.86                    | 5.78                      | 5.71                    |
|           | 60         | 6.88                    | 6.79                      | 6.70                    |
|           | 70         | 8.18                    | 8.05                      | 7.93                    |
|           | 80         | 10.04                   | 9.84                      | 9.65                    |
|           | 90         | 13.34                   | 12.93                     | 12.66                   |
|           | 95         | 16.88                   | 16.33                     | 15.83                   |
| Atrazine  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.01                    |
|           | 80         | 0.03                    | 0.02                      | 0.01                    |
|           | 90         | 0.07                    | 0.05                      | 0.04                    |
|           | 95         | 0.21                    | 0.11                      | 0.08                    |

TABLE 16 FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## IOWA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Chlordane | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.01                    |
|           | 70         | 0.03                    | 0.02                      | 0.02                    |
|           | 80         | 0.07                    | 0.06                      | 0.05                    |
|           | 90         | 0.23                    | 0.20                      | 0.18                    |
|           | 95         | 0.69                    | 0.57                      | 0.49                    |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.00                      | 0.00                    |
|           | 90         | 0.01                    | 0.01                      | 0.01                    |
|           | 95         | 0.03                    | 0.03                      | 0.03                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.00                    |
|           | 90         | 0.02                    | 0.02                      | 0.02                    |
|           | 95         | 0.07                    | 0.05                      | 0.05                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## IOWA (CONT)

| Pesticide  | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|------------|------------|-------------------------|---------------------------|-------------------------|
| DDTR       | 10         | 0.00                    | 0.00                      | 0.00                    |
|            | 20         | 0.00                    | 0.00                      | 0.00                    |
|            | 30         | 0.00                    | 0.00                      | 0.00                    |
|            | 40         | 0.00                    | 0.00                      | 0.00                    |
|            | 50         | 0.00                    | 0.00                      | 0.00                    |
|            | 60         | 0.00                    | 0.00                      | 0.00                    |
|            | 70         | 0.01                    | 0.00                      | 0.00                    |
|            | 80         | 0.01                    | 0.01                      | 0.01                    |
|            | 90         | 0.04                    | 0.04                      | 0.03                    |
|            | 95         | 0.15                    | 0.12                      | 0.09                    |
| Dieldrin   | 10         | 0.00                    | 0.00                      | 0.00                    |
|            | 20         | 0.00                    | 0.00                      | 0.00                    |
|            | 30         | 0.01                    | 0.00                      | 0.00                    |
|            | 40         | 0.01                    | 0.01                      | 0.01                    |
|            | 50         | 0.02                    | 0.01                      | 0.01                    |
|            | 60         | 0.03                    | 0.02                      | 0.02                    |
|            | 70         | 0.05                    | 0.04                      | 0.04                    |
|            | 80         | 0.10                    | 0.08                      | 0.07                    |
|            | 90         | 0.27                    | 0.21                      | 0.17                    |
|            | 95         | 0.66                    | 0.45                      | 0.34                    |
| Heptachlor | 10         | 0.00                    | 0.00                      | 0.00                    |
|            | 20         | 0.00                    | 0.00                      | 0.00                    |
|            | 30         | 0.00                    | 0.00                      | 0.00                    |
|            | 40         | 0.00                    | 0.00                      | 0.00                    |
|            | 50         | 0.00                    | 0.00                      | 0.00                    |
|            | 60         | 0.00                    | 0.00                      | 0.00                    |
|            | 70         | 0.00                    | 0.00                      | 0.00                    |
|            | 80         | 0.00                    | 0.00                      | 0.00                    |
|            | 90         | 0.01                    | 0.01                      | 0.00                    |
|            | 95         | 0.03                    | 0.02                      | 0.02                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## IOWA (CONT)

| Pesticide          | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|--------------------|------------|-------------------------|---------------------------|-------------------------|
| Heptachlor Epoxide | 10         | 0.00                    | 0.00                      | 0.00                    |
|                    | 20         | 0.00                    | 0.00                      | 0.00                    |
|                    | 30         | 0.00                    | 0.00                      | 0.00                    |
|                    | 40         | 0.00                    | 0.00                      | 0.00                    |
|                    | 50         | 0.00                    | 0.00                      | 0.00                    |
|                    | 60         | 0.00                    | 0.00                      | 0.00                    |
|                    | 70         | 0.01                    | 0.00                      | 0.00                    |
|                    | 80         | 0.01                    | 0.01                      | 0.01                    |
|                    | 90         | 0.02                    | 0.02                      | 0.02                    |
|                    | 95         | 0.06                    | 0.05                      | 0.04                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## KENTUCKY

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Aldrin    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.00                    |
|           | 90         | 0.08                    | 0.04                      | 0.03                    |
|           | 95         | 0.41                    | 0.14                      | 0.08                    |
| Arsenic   | 10         | 5.17                    | 4.48                      | 3.57                    |
|           | 20         | 6.07                    | 5.45                      | 4.60                    |
|           | 30         | 6.83                    | 6.26                      | 5.51                    |
|           | 40         | 7.60                    | 7.06                      | 6.40                    |
|           | 50         | 8.45                    | 7.89                      | 7.30                    |
|           | 60         | 9.50                    | 8.83                      | 8.24                    |
|           | 70         | 10.92                   | 9.95                      | 9.26                    |
|           | 80         | 12.99                   | 11.44                     | 10.50                   |
|           | 90         | 16.69                   | 13.90                     | 12.37                   |
|           | 95         | 20.59                   | 16.31                     | 14.11                   |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.02                    | 0.01                      | 0.01                    |
|           | 70         | 0.03                    | 0.02                      | 0.02                    |
|           | 80         | 0.06                    | 0.05                      | 0.04                    |
|           | 90         | 0.21                    | 0.14                      | 0.10                    |
|           | 95         | 0.57                    | 0.33                      | 0.22                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## LOUISIANA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.69                    | 0.58                      | 0.46                    |
|           | 20         | 0.95                    | 0.83                      | 0.70                    |
|           | 30         | 1.20                    | 1.08                      | 0.94                    |
|           | 40         | 1.47                    | 1.34                      | 1.21                    |
|           | 50         | 1.80                    | 1.65                      | 1.51                    |
|           | 60         | 2.22                    | 2.03                      | 1.87                    |
|           | 70         | 2.82                    | 2.54                      | 2.32                    |
|           | 80         | 3.78                    | 3.29                      | 2.95                    |
|           | 90         | 5.72                    | 4.71                      | 4.07                    |
|           | 95         | 8.08                    | 6.35                      | 5.29                    |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.03                    | 0.02                      | 0.01                    |
|           | 80         | 0.10                    | 0.06                      | 0.04                    |
|           | 90         | 0.77                    | 0.30                      | 0.17                    |
|           | 95         | 4.90                    | 1.19                      | 0.52                    |
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.00                    |
|           | 80         | 0.05                    | 0.03                      | 0.02                    |
|           | 90         | 0.22                    | 0.11                      | 0.07                    |
|           | 95         | 1.02                    | 0.32                      | 0.18                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## LOUISIANA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.02                    | 0.01                      | 0.00                    |
|           | 60         | 0.04                    | 0.02                      | 0.01                    |
|           | 70         | 0.09                    | 0.06                      | 0.04                    |
|           | 80         | 0.31                    | 0.20                      | 0.14                    |
|           | 90         | 2.12                    | 1.02                      | 0.61                    |
|           | 95         | 11.31                   | 3.87                      | 1.90                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.00                    |
|           | 50         | 0.02                    | 0.01                      | 0.01                    |
|           | 60         | 0.06                    | 0.04                      | 0.02                    |
|           | 70         | 0.14                    | 0.10                      | 0.07                    |
|           | 80         | 0.48                    | 0.33                      | 0.24                    |
|           | 90         | 3.15                    | 1.73                      | 1.10                    |
|           | 95         | 15.96                   | 6.69                      | 3.59                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.01                    |
|           | 70         | 0.02                    | 0.02                      | 0.01                    |
|           | 80         | 0.03                    | 0.03                      | 0.02                    |
|           | 90         | 0.07                    | 0.05                      | 0.04                    |
|           | 95         | 0.17                    | 0.09                      | 0.07                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## MICHIGAN

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.97                    | 1.36                      | 0.63                    |
|           | 20         | 2.60                    | 1.94                      | 1.11                    |
|           | 30         | 3.23                    | 2.51                      | 1.64                    |
|           | 40         | 3.96                    | 3.12                      | 2.24                    |
|           | 50         | 4.92                    | 3.83                      | 2.93                    |
|           | 60         | 6.32                    | 4.70                      | 3.70                    |
|           | 70         | 8.54                    | 5.86                      | 4.59                    |
|           | 80         | 12.49                   | 7.57                      | 5.75                    |
|           | 90         | 21.73                   | 10.80                     | 7.65                    |
|           | 95         | 34.69                   | 14.48                     | 9.58                    |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.03                    | 0.02                      | 0.01                    |
|           | 95         | 0.52                    | 0.16                      | 0.08                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.06                    | 0.04                      | 0.02                    |
|           | 95         | 1.23                    | 0.45                      | 0.23                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## MICHIGAN (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.03                    | 0.02                      | 0.01                    |
|           | 95         | 0.38                    | 0.10                      | 0.05                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

MID-ATLANTIC STATES GROUP<sup>1</sup>

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 2.72                    | 2.28                      | 1.76                    |
|           | 20         | 3.50                    | 3.05                      | 2.52                    |
|           | 30         | 4.21                    | 3.77                      | 3.25                    |
|           | 40         | 4.98                    | 4.51                      | 4.01                    |
|           | 50         | 5.87                    | 5.34                      | 4.83                    |
|           | 60         | 7.02                    | 6.32                      | 5.74                    |
|           | 70         | 8.62                    | 7.56                      | 6.82                    |
|           | 80         | 11.09                   | 9.33                      | 8.24                    |
|           | 90         | 15.87                   | 12.50                     | 10.61                   |
|           | 95         | 21.43                   | 15.92                     | 13.02                   |

<sup>1</sup> Includes Delaware, Maryland and New Jersey

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## MISSISSIPPI

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 2.30                    | 2.14                      | 1.97                    |
|           | 20         | 2.96                    | 2.80                      | 2.63                    |
|           | 30         | 3.55                    | 3.40                      | 3.23                    |
|           | 40         | 4.17                    | 4.01                      | 3.85                    |
|           | 50         | 4.86                    | 4.68                      | 4.51                    |
|           | 60         | 5.69                    | 5.47                      | 5.27                    |
|           | 70         | 6.76                    | 6.46                      | 6.19                    |
|           | 80         | 8.31                    | 7.84                      | 7.45                    |
|           | 90         | 11.09                   | 10.27                     | 9.60                    |
|           | 95         | 14.11                   | 12.82                     | 11.81                   |
| pp'DDE    | 10         | 0.01                    | 0.01                      | 0.01                    |
|           | 20         | 0.03                    | 0.02                      | 0.02                    |
|           | 30         | 0.04                    | 0.04                      | 0.03                    |
|           | 40         | 0.07                    | 0.06                      | 0.05                    |
|           | 50         | 0.11                    | 0.09                      | 0.08                    |
|           | 60         | 0.17                    | 0.15                      | 0.13                    |
|           | 70         | 0.28                    | 0.24                      | 0.21                    |
|           | 80         | 0.51                    | 0.42                      | 0.36                    |
|           | 90         | 1.19                    | 0.92                      | 0.75                    |
|           | 95         | 2.44                    | 1.77                      | 1.36                    |
| op'DDT    | 10         | 0.01                    | 0.01                      | 0.01                    |
|           | 20         | 0.02                    | 0.01                      | 0.01                    |
|           | 30         | 0.03                    | 0.02                      | 0.02                    |
|           | 40         | 0.04                    | 0.04                      | 0.03                    |
|           | 50         | 0.06                    | 0.06                      | 0.05                    |
|           | 60         | 0.10                    | 0.09                      | 0.08                    |
|           | 70         | 0.16                    | 0.14                      | 0.13                    |
|           | 80         | 0.27                    | 0.24                      | 0.21                    |
|           | 90         | 0.61                    | 0.50                      | 0.42                    |
|           | 95         | 1.18                    | 0.92                      | 0.75                    |

TABLE 1b. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## MISSISSIPPI (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.03                    | 0.02                      | 0.01                    |
|           | 20         | 0.06                    | 0.04                      | 0.03                    |
|           | 30         | 0.12                    | 0.09                      | 0.07                    |
|           | 40         | 0.21                    | 0.17                      | 0.13                    |
|           | 50         | 0.36                    | 0.29                      | 0.24                    |
|           | 60         | 0.63                    | 0.52                      | 0.43                    |
|           | 70         | 1.20                    | 0.95                      | 0.77                    |
|           | 80         | 2.62                    | 1.93                      | 1.51                    |
|           | 90         | 7.94                    | 5.19                      | 3.70                    |
|           | 95         | 20.04                   | 11.74                     | 7.71                    |
| DDTR      | 10         | 0.06                    | 0.04                      | 0.02                    |
|           | 20         | 0.13                    | 0.10                      | 0.07                    |
|           | 30         | 0.24                    | 0.19                      | 0.14                    |
|           | 40         | 0.41                    | 0.33                      | 0.26                    |
|           | 50         | 0.67                    | 0.55                      | 0.45                    |
|           | 60         | 1.13                    | 0.93                      | 0.77                    |
|           | 70         | 2.04                    | 1.63                      | 1.33                    |
|           | 80         | 4.18                    | 3.12                      | 2.45                    |
|           | 90         | 11.62                   | 7.69                      | 5.56                    |
|           | 95         | 27.29                   | 16.20                     | 10.82                   |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.02                    | 0.01                      | 0.01                    |
|           | 50         | 0.03                    | 0.02                      | 0.01                    |
|           | 60         | 0.06                    | 0.04                      | 0.03                    |
|           | 70         | 0.11                    | 0.08                      | 0.06                    |
|           | 80         | 0.28                    | 0.18                      | 0.13                    |
|           | 90         | 1.06                    | 0.55                      | 0.35                    |
|           | 95         | 3.30                    | 1.34                      | 0.74                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

MISSISSIPPI (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Toxaphene | 10         | 0.03                    | 0.01                      | 0.00                    |
|           | 20         | 0.06                    | 0.03                      | 0.01                    |
|           | 30         | 0.10                    | 0.06                      | 0.02                    |
|           | 40         | 0.16                    | 0.10                      | 0.04                    |
|           | 50         | 0.24                    | 0.16                      | 0.09                    |
|           | 60         | 0.36                    | 0.27                      | 0.17                    |
|           | 70         | 0.58                    | 0.45                      | 0.33                    |
|           | 80         | 1.12                    | 0.84                      | 0.65                    |
|           | 90         | 3.33                    | 1.99                      | 1.43                    |
|           | 95         | 8.64                    | 4.04                      | 2.57                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## MISSOURI

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Aldrin    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.06                    | 0.05                      | 0.05                    |
|           | 95         | 0.23                    | 0.17                      | 0.14                    |
| Arsenic   | 10         | 2.65                    | 2.31                      | 1.92                    |
|           | 20         | 3.36                    | 3.02                      | 2.63                    |
|           | 30         | 4.00                    | 3.67                      | 3.29                    |
|           | 40         | 4.67                    | 4.33                      | 3.97                    |
|           | 50         | 5.43                    | 5.05                      | 4.69                    |
|           | 60         | 6.38                    | 5.90                      | 5.49                    |
|           | 70         | 7.66                    | 6.96                      | 6.44                    |
|           | 80         | 9.56                    | 8.45                      | 7.68                    |
|           | 90         | 13.11                   | 11.06                     | 9.75                    |
|           | 95         | 17.06                   | 13.81                     | 11.84                   |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.01                    |
|           | 80         | 0.04                    | 0.03                      | 0.02                    |
|           | 90         | 0.15                    | 0.11                      | 0.08                    |
|           | 95         | 0.58                    | 0.32                      | 0.22                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NEBRASKA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.64                    | 1.52                      | 1.40                    |
|           | 20         | 2.35                    | 2.22                      | 2.08                    |
|           | 30         | 3.05                    | 2.91                      | 2.77                    |
|           | 40         | 3.82                    | 3.67                      | 3.53                    |
|           | 50         | 4.73                    | 4.56                      | 4.40                    |
|           | 60         | 5.88                    | 5.67                      | 5.47                    |
|           | 70         | 7.47                    | 7.16                      | 6.88                    |
|           | 80         | 9.91                    | 9.39                      | 8.94                    |
|           | 90         | 14.73                   | 13.70                     | 12.83                   |
|           | 95         | 20.47                   | 18.71                     | 17.26                   |
| Chlordane | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.03                    | 0.03                      | 0.02                    |
|           | 95         | 0.05                    | 0.05                      | 0.04                    |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.00                      | 0.00                    |
|           | 90         | 0.02                    | 0.01                      | 0.01                    |
|           | 95         | 0.06                    | 0.03                      | 0.02                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NEBRASKA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.01                    |
|           | 90         | 0.03                    | 0.03                      | 0.03                    |
|           | 95         | 0.09                    | 0.07                      | 0.06                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.01                    |
|           | 80         | 0.02                    | 0.02                      | 0.01                    |
|           | 90         | 0.06                    | 0.05                      | 0.04                    |
|           | 95         | 0.16                    | 0.11                      | 0.08                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

NEW ENGLAND STATES GROUP 1

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.66                    | 1.35                      | 1.04                    |
|           | 20         | 2.60                    | 2.21                      | 1.82                    |
|           | 30         | 3.62                    | 3.16                      | 2.70                    |
|           | 40         | 4.83                    | 4.29                      | 3.77                    |
|           | 50         | 6.39                    | 5.71                      | 5.09                    |
|           | 60         | 8.57                    | 7.60                      | 6.78                    |
|           | 70         | 11.87                   | 10.31                     | 9.11                    |
|           | 80         | 17.58                   | 14.73                     | 12.72                   |
|           | 90         | 30.65                   | 24.17                     | 19.99                   |
|           | 95         | 48.74                   | 36.39                     | 28.90                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.02                    | 0.01                      | 0.00                    |
|           | 60         | 0.03                    | 0.02                      | 0.01                    |
|           | 70         | 0.06                    | 0.04                      | 0.02                    |
|           | 80         | 0.15                    | 0.09                      | 0.06                    |
|           | 90         | 0.71                    | 0.28                      | 0.16                    |
|           | 95         | 2.79                    | 0.72                      | 0.34                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.03                    | 0.01                      | 0.00                    |
|           | 50         | 0.05                    | 0.02                      | 0.00                    |
|           | 60         | 0.09                    | 0.05                      | 0.01                    |
|           | 70         | 0.19                    | 0.11                      | 0.04                    |
|           | 80         | 0.57                    | 0.29                      | 0.16                    |
|           | 90         | 4.18                    | 1.18                      | 0.60                    |
|           | 95         | 25.87                   | 3.75                      | 1.49                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

NEW ENGLAND STATES GROUP (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.02                    | 0.01                      | 0.00                    |
|           | 50         | 0.04                    | 0.02                      | 0.01                    |
|           | 60         | 0.09                    | 0.05                      | 0.02                    |
|           | 70         | 0.23                    | 0.13                      | 0.07                    |
|           | 80         | 0.90                    | 0.43                      | 0.24                    |
|           | 90         | 7.88                    | 2.24                      | 1.04                    |
|           | 95         | 52.06                   | 8.73                      | 3.16                    |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.02                    | 0.01                      | 0.00                    |
|           | 70         | 0.03                    | 0.02                      | 0.01                    |
|           | 80         | 0.05                    | 0.03                      | 0.02                    |
|           | 90         | 0.14                    | 0.08                      | 0.05                    |
|           | 95         | 0.42                    | 0.15                      | 0.09                    |

<sup>1</sup> Includes Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NEW YORK

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 2.19                    | 2.03                      | 1.87                    |
|           | 20         | 3.14                    | 2.97                      | 2.79                    |
|           | 30         | 4.08                    | 3.90                      | 3.71                    |
|           | 40         | 5.11                    | 4.92                      | 4.73                    |
|           | 50         | 6.34                    | 6.12                      | 5.90                    |
|           | 60         | 7.91                    | 7.61                      | 7.34                    |
|           | 70         | 10.05                   | 9.61                      | 9.21                    |
|           | 80         | 13.37                   | 12.63                     | 11.98                   |
|           | 90         | 19.93                   | 18.44                     | 17.19                   |
|           | 95         | 27.75                   | 25.20                     | 23.12                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.04                    | 0.02                      | 0.01                    |
|           | 90         | 0.94                    | 0.25                      | 0.11                    |
|           | 95         | 19.51                   | 1.85                      | 0.56                    |
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.00                    |
|           | 90         | 0.07                    | 0.04                      | 0.02                    |
|           | 95         | 0.72                    | 0.19                      | 0.09                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NEW YORK (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.04                    | 0.02                      | 0.01                    |
|           | 80         | 0.12                    | 0.09                      | 0.06                    |
|           | 90         | 0.88                    | 0.53                      | 0.36                    |
|           | 95         | 5.40                    | 2.38                      | 1.34                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.05                    | 0.03                      | 0.02                    |
|           | 80         | 0.20                    | 0.13                      | 0.09                    |
|           | 90         | 2.05                    | 1.11                      | 0.69                    |
|           | 95         | 16.17                   | 6.32                      | 3.20                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.00                    |
|           | 80         | 0.03                    | 0.02                      | 0.02                    |
|           | 90         | 0.15                    | 0.09                      | 0.06                    |
|           | 95         | 0.63                    | 0.24                      | 0.14                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CORPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NEW YORK (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.02                      | 0.01                    |
|           | 90         | 0.10                    | 0.07                      | 0.05                    |
|           | 95         | 0.44                    | 0.22                      | 0.14                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NORTH CAROLINA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.73                    | 0.61                      | 0.49                    |
|           | 20         | 1.23                    | 1.06                      | 0.90                    |
|           | 30         | 1.79                    | 1.59                      | 1.39                    |
|           | 40         | 2.49                    | 2.23                      | 1.99                    |
|           | 50         | 3.42                    | 3.07                      | 2.77                    |
|           | 60         | 4.75                    | 4.23                      | 3.80                    |
|           | 70         | 6.83                    | 5.96                      | 5.28                    |
|           | 80         | 10.54                   | 8.90                      | 7.70                    |
|           | 90         | 19.40                   | 15.50                     | 12.86                   |
|           | 95         | 32.24                   | 24.53                     | 19.58                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.01                    |
|           | 40         | 0.02                    | 0.02                      | 0.01                    |
|           | 50         | 0.03                    | 0.03                      | 0.02                    |
|           | 60         | 0.05                    | 0.04                      | 0.03                    |
|           | 70         | 0.08                    | 0.06                      | 0.06                    |
|           | 80         | 0.14                    | 0.11                      | 0.09                    |
|           | 90         | 0.33                    | 0.24                      | 0.19                    |
|           | 95         | 0.67                    | 0.45                      | 0.33                    |
| op'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.01                    |
|           | 50         | 0.02                    | 0.01                      | 0.01                    |
|           | 60         | 0.03                    | 0.02                      | 0.02                    |
|           | 70         | 0.04                    | 0.04                      | 0.03                    |
|           | 80         | 0.08                    | 0.07                      | 0.06                    |
|           | 90         | 0.19                    | 0.15                      | 0.12                    |
|           | 95         | 0.43                    | 0.28                      | 0.21                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NORTH CAROLINA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.03                    | 0.02                      | 0.01                    |
|           | 50         | 0.05                    | 0.03                      | 0.02                    |
|           | 60         | 0.09                    | 0.07                      | 0.05                    |
|           | 70         | 0.18                    | 0.14                      | 0.11                    |
|           | 80         | 0.45                    | 0.32                      | 0.24                    |
|           | 90         | 1.77                    | 1.03                      | 0.69                    |
|           | 95         | 5.66                    | 2.68                      | 1.58                    |
| DDTR      | 10         | 0.02                    | 0.01                      | 0.00                    |
|           | 20         | 0.04                    | 0.02                      | 0.01                    |
|           | 30         | 0.07                    | 0.04                      | 0.02                    |
|           | 40         | 0.11                    | 0.07                      | 0.04                    |
|           | 50         | 0.18                    | 0.13                      | 0.08                    |
|           | 60         | 0.31                    | 0.23                      | 0.16                    |
|           | 70         | 0.57                    | 0.41                      | 0.30                    |
|           | 80         | 1.28                    | 0.82                      | 0.59                    |
|           | 90         | 4.30                    | 2.14                      | 1.36                    |
|           | 95         | 12.05                   | 4.74                      | 2.63                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.00                    |
|           | 80         | 0.04                    | 0.03                      | 0.01                    |
|           | 90         | 0.18                    | 0.08                      | 0.05                    |
|           | 95         | 0.83                    | 0.20                      | 0.11                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NORTH CAROLINA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| op'TDE    | 10         | 0.01                    | 0.01                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.00                    |
|           | 30         | 0.02                    | 0.01                      | 0.00                    |
|           | 40         | 0.02                    | 0.02                      | 0.01                    |
|           | 50         | 0.03                    | 0.02                      | 0.01                    |
|           | 60         | 0.03                    | 0.03                      | 0.02                    |
|           | 70         | 0.04                    | 0.04                      | 0.02                    |
|           | 80         | 0.06                    | 0.05                      | 0.04                    |
|           | 90         | 0.11                    | 0.08                      | 0.07                    |
|           | 95         | 0.19                    | 0.12                      | 0.09                    |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.01                      | 0.00                    |
|           | 40         | 0.02                    | 0.01                      | 0.00                    |
|           | 50         | 0.03                    | 0.02                      | 0.01                    |
|           | 60         | 0.05                    | 0.03                      | 0.02                    |
|           | 70         | 0.09                    | 0.06                      | 0.04                    |
|           | 80         | 0.23                    | 0.13                      | 0.08                    |
|           | 90         | 0.99                    | 0.34                      | 0.20                    |
|           | 95         | 3.53                    | 0.79                      | 0.38                    |
| Toxaphene | 10         | 0.03                    | 0.01                      | 0.00                    |
|           | 20         | 0.06                    | 0.02                      | 0.00                    |
|           | 30         | 0.08                    | 0.03                      | 0.00                    |
|           | 40         | 0.11                    | 0.05                      | 0.00                    |
|           | 50         | 0.16                    | 0.07                      | 0.01                    |
|           | 60         | 0.21                    | 0.11                      | 0.02                    |
|           | 70         | 0.30                    | 0.18                      | 0.05                    |
|           | 80         | 0.46                    | 0.32                      | 0.15                    |
|           | 90         | 1.06                    | 0.70                      | 0.50                    |
|           | 95         | 3.15                    | 1.34                      | 0.92                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## NORTH DAKOTA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 2.85                    | 2.83                      | 2.80                    |
|           | 20         | 3.85                    | 3.82                      | 3.79                    |
|           | 30         | 4.77                    | 4.74                      | 4.71                    |
|           | 40         | 5.74                    | 5.71                      | 5.68                    |
|           | 50         | 6.82                    | 6.79                      | 6.75                    |
|           | 60         | 8.12                    | 8.07                      | 8.03                    |
|           | 70         | 9.78                    | 9.72                      | 9.66                    |
|           | 80         | 12.17                   | 12.07                     | 11.98                   |
|           | 90         | 16.48                   | 16.31                     | 16.15                   |
|           | 95         | 21.18                   | 20.91                     | 20.65                   |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.01                    | 0.00                      | 0.00                    |
|           | 95         | 0.01                    | 0.01                      | 0.01                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.01                    | 0.00                      | 0.00                    |
|           | 95         | 0.02                    | 0.01                      | 0.01                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## OHIO

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Aldrin    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.00                    |
|           | 90         | 0.05                    | 0.03                      | 0.02                    |
|           | 95         | 0.23                    | 0.12                      | 0.08                    |
| Arsenic   | 10         | 2.22                    | 2.08                      | 1.94                    |
|           | 20         | 3.41                    | 3.24                      | 3.07                    |
|           | 30         | 4.65                    | 4.46                      | 4.27                    |
|           | 40         | 6.09                    | 5.87                      | 5.66                    |
|           | 50         | 7.85                    | 7.58                      | 7.32                    |
|           | 60         | 10.15                   | 9.79                      | 9.45                    |
|           | 70         | 13.42                   | 12.88                     | 12.38                   |
|           | 80         | 18.67                   | 17.74                     | 16.91                   |
|           | 90         | 29.59                   | 27.67                     | 26.00                   |
|           | 95         | 43.35                   | 39.94                     | 37.04                   |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.01                    | 0.01                      | 0.00                    |
|           | 95         | 0.07                    | 0.04                      | 0.03                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## OHIO (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.10                    | 0.06                      | 0.04                    |
|           | 95         | 0.52                    | 0.18                      | 0.10                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## OKLAHOMA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.63                    | 0.58                      | 0.53                    |
|           | 20         | 0.96                    | 0.90                      | 0.84                    |
|           | 30         | 1.30                    | 1.24                      | 1.18                    |
|           | 40         | 1.70                    | 1.63                      | 1.56                    |
|           | 50         | 2.19                    | 2.11                      | 2.02                    |
|           | 60         | 2.84                    | 2.72                      | 2.61                    |
|           | 70         | 3.75                    | 3.57                      | 3.41                    |
|           | 80         | 5.23                    | 4.92                      | 4.64                    |
|           | 90         | 8.32                    | 7.66                      | 7.10                    |
|           | 95         | 12.22                   | 11.04                     | 10.07                   |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## PENNSYLVANIA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 2.86                    | 2.50                      | 2.09                    |
|           | 20         | 3.88                    | 3.50                      | 3.07                    |
|           | 30         | 4.86                    | 4.46                      | 4.03                    |
|           | 40         | 5.93                    | 5.48                      | 5.04                    |
|           | 50         | 7.22                    | 6.65                      | 6.15                    |
|           | 60         | 8.87                    | 8.08                      | 7.44                    |
|           | 70         | 11.16                   | 9.94                      | 9.03                    |
|           | 80         | 14.69                   | 12.67                     | 11.27                   |
|           | 90         | 21.62                   | 17.74                     | 15.23                   |
|           | 95         | 29.83                   | 23.42                     | 19.48                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.10                    | 0.05                      | 0.04                    |
|           | 95         | 0.52                    | 0.17                      | 0.10                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.03                    | 0.02                      | 0.01                    |
|           | 90         | 0.13                    | 0.08                      | 0.05                    |
|           | 95         | 0.62                    | 0.24                      | 0.14                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## PENNSYLVANIA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.00                    |
|           | 80         | 0.06                    | 0.04                      | 0.02                    |
|           | 90         | 0.53                    | 0.24                      | 0.14                    |
|           | 95         | 3.90                    | 1.11                      | 0.51                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.00                    |
|           | 80         | 0.04                    | 0.02                      | 0.00                    |
|           | 90         | 0.41                    | 0.07                      | 0.03                    |
|           | 95         | 7.56                    | 0.20                      | 0.08                    |
| pp'TDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.09                    | 0.05                      | 0.03                    |
|           | 95         | 0.42                    | 0.15                      | 0.09                    |

TABLE 16 FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## SOUTH CAROLINA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.76                    | 0.65                      | 0.54                    |
|           | 20         | 1.04                    | 0.93                      | 0.81                    |
|           | 30         | 1.32                    | 1.20                      | 1.07                    |
|           | 40         | 1.62                    | 1.49                      | 1.36                    |
|           | 50         | 1.98                    | 1.82                      | 1.68                    |
|           | 60         | 2.44                    | 2.23                      | 2.06                    |
|           | 70         | 3.08                    | 2.78                      | 2.54                    |
|           | 80         | 4.09                    | 3.58                      | 3.21                    |
|           | 90         | 6.11                    | 5.09                      | 4.41                    |
|           | 95         | 8.52                    | 6.81                      | 5.72                    |
| pp'DDE    | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.02                    | 0.01                      | 0.00                    |
|           | 30         | 0.03                    | 0.02                      | 0.01                    |
|           | 40         | 0.05                    | 0.03                      | 0.02                    |
|           | 50         | 0.08                    | 0.06                      | 0.03                    |
|           | 60         | 0.14                    | 0.10                      | 0.06                    |
|           | 70         | 0.28                    | 0.17                      | 0.11                    |
|           | 80         | 0.65                    | 0.33                      | 0.21                    |
|           | 90         | 2.37                    | 0.85                      | 0.47                    |
|           | 95         | 7.05                    | 1.83                      | 0.87                    |
| op'DDT    | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.01                    | 0.01                      | 0.00                    |
|           | 30         | 0.02                    | 0.01                      | 0.01                    |
|           | 40         | 0.03                    | 0.02                      | 0.01                    |
|           | 50         | 0.04                    | 0.03                      | 0.02                    |
|           | 60         | 0.06                    | 0.05                      | 0.04                    |
|           | 70         | 0.10                    | 0.08                      | 0.06                    |
|           | 80         | 0.18                    | 0.13                      | 0.10                    |
|           | 90         | 0.46                    | 0.28                      | 0.20                    |
|           | 95         | 1.03                    | 0.52                      | 0.33                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## SOUTH CAROLINA (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| pp'DDT    | 10         | 0.04                    | 0.02                      | 0.00                    |
|           | 20         | 0.06                    | 0.04                      | 0.01                    |
|           | 30         | 0.09                    | 0.06                      | 0.03                    |
|           | 40         | 0.13                    | 0.09                      | 0.05                    |
|           | 50         | 0.18                    | 0.13                      | 0.08                    |
|           | 60         | 0.26                    | 0.20                      | 0.14                    |
|           | 70         | 0.41                    | 0.31                      | 0.24                    |
|           | 80         | 0.77                    | 0.51                      | 0.39                    |
|           | 90         | 2.02                    | 1.04                      | 0.71                    |
|           | 95         | 4.64                    | 1.85                      | 1.12                    |
| DDTR      | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.04                    | 0.01                      | 0.00                    |
|           | 30         | 0.08                    | 0.03                      | 0.01                    |
|           | 40         | 0.16                    | 0.07                      | 0.02                    |
|           | 50         | 0.31                    | 0.15                      | 0.06                    |
|           | 60         | 0.70                    | 0.33                      | 0.15                    |
|           | 70         | 1.98                    | 0.75                      | 0.37                    |
|           | 80         | 7.97                    | 1.95                      | 0.89                    |
|           | 90         | 62.86                   | 7.35                      | 2.58                    |
|           | 95         | 362.57                  | 21.97                     | 5.93                    |
| pp'TDE    | 10         | 0.01                    | 0.00                      | 0.00                    |
|           | 20         | 0.02                    | 0.01                      | 0.00                    |
|           | 30         | 0.03                    | 0.02                      | 0.01                    |
|           | 40         | 0.04                    | 0.03                      | 0.01                    |
|           | 50         | 0.06                    | 0.04                      | 0.02                    |
|           | 60         | 0.09                    | 0.06                      | 0.04                    |
|           | 70         | 0.15                    | 0.09                      | 0.06                    |
|           | 80         | 0.30                    | 0.16                      | 0.11                    |
|           | 90         | 0.92                    | 0.33                      | 0.19                    |
|           | 95         | 2.34                    | 0.60                      | 0.31                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## SOUTH DAKOTA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.44                    | 1.37                      | 1.30                    |
|           | 20         | 2.01                    | 1.94                      | 1.87                    |
|           | 30         | 2.57                    | 2.49                      | 2.42                    |
|           | 40         | 3.16                    | 3.08                      | 3.01                    |
|           | 50         | 3.86                    | 3.76                      | 3.68                    |
|           | 60         | 4.72                    | 4.59                      | 4.48                    |
|           | 70         | 5.87                    | 5.69                      | 5.52                    |
|           | 80         | 7.60                    | 7.30                      | 7.03                    |
|           | 90         | 10.88                   | 10.31                     | 9.82                    |
|           | 95         | 14.65                   | 13.72                     | 12.92                   |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.01                    | 0.01                      | 0.00                    |
|           | 95         | 0.03                    | 0.02                      | 0.01                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## TENNESSEE

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 3.93                    | 3.73                      | 3.52                    |
|           | 20         | 4.82                    | 4.63                      | 4.43                    |
|           | 30         | 5.59                    | 5.41                      | 5.22                    |
|           | 40         | 6.35                    | 6.18                      | 6.00                    |
|           | 50         | 7.18                    | 7.00                      | 6.81                    |
|           | 60         | 8.14                    | 7.92                      | 7.71                    |
|           | 70         | 9.35                    | 9.04                      | 8.77                    |
|           | 80         | 11.01                   | 10.57                     | 10.18                   |
|           | 90         | 13.84                   | 13.11                     | 12.49                   |
|           | 95         | 16.75                   | 15.66                     | 14.77                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.01                      | 0.00                    |
|           | 80         | 0.02                    | 0.01                      | 0.01                    |
|           | 90         | 0.09                    | 0.04                      | 0.03                    |
|           | 95         | 0.37                    | 0.11                      | 0.06                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.03                    | 0.01                      | 0.01                    |
|           | 80         | 0.06                    | 0.04                      | 0.02                    |
|           | 90         | 0.34                    | 0.13                      | 0.08                    |
|           | 95         | 1.87                    | 0.39                      | 0.19                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## TENNESSEE (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.02                    | 0.01                      | 0.00                    |
|           | 70         | 0.04                    | 0.03                      | 0.02                    |
|           | 80         | 0.11                    | 0.08                      | 0.05                    |
|           | 90         | 0.62                    | 0.30                      | 0.19                    |
|           | 95         | 2.88                    | 0.94                      | 0.48                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

VIRGINIA AND WEST VIRGINIA

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.95                    | 0.85                      | 0.74                    |
|           | 20         | 1.38                    | 1.26                      | 1.15                    |
|           | 30         | 1.81                    | 1.69                      | 1.56                    |
|           | 40         | 2.30                    | 2.16                      | 2.02                    |
|           | 50         | 2.90                    | 2.72                      | 2.56                    |
|           | 60         | 3.66                    | 3.43                      | 3.22                    |
|           | 70         | 4.74                    | 4.39                      | 4.10                    |
|           | 80         | 6.45                    | 5.87                      | 5.40                    |
|           | 90         | 9.93                    | 8.76                      | 7.86                    |
|           | 95         | 14.21                   | 12.20                     | 10.71                   |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.01                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.01                    |
|           | 80         | 0.05                    | 0.04                      | 0.02                    |
|           | 90         | 0.28                    | 0.15                      | 0.10                    |
|           | 95         | 1.26                    | 0.46                      | 0.25                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.01                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.01                      | 0.00                    |
|           | 50         | 0.02                    | 0.01                      | 0.01                    |
|           | 60         | 0.03                    | 0.02                      | 0.02                    |
|           | 70         | 0.06                    | 0.05                      | 0.04                    |
|           | 80         | 0.13                    | 0.10                      | 0.08                    |
|           | 90         | 0.49                    | 0.32                      | 0.24                    |
|           | 95         | 1.49                    | 0.82                      | 0.54                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## VIRGINIA AND WEST VIRGINIA (CONT)

| Pesticide           | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|---------------------|------------|-------------------------|---------------------------|-------------------------|
| Heptachlor Expoxide | 10         | 0.00                    | 0.00                      | 0.00                    |
|                     | 20         | 0.00                    | 0.00                      | 0.00                    |
|                     | 30         | 0.00                    | 0.00                      | 0.00                    |
|                     | 40         | 0.00                    | 0.00                      | 0.00                    |
|                     | 50         | 0.01                    | 0.00                      | 0.00                    |
|                     | 60         | 0.01                    | 0.00                      | 0.00                    |
|                     | 70         | 0.01                    | 0.01                      | 0.00                    |
|                     | 80         | 0.03                    | 0.02                      | 0.01                    |
|                     | 90         | 0.08                    | 0.04                      | 0.03                    |
|                     | 95         | 0.33                    | 0.10                      | 0.06                    |



TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## WASHINGTON

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.09                    | 1.02                      | 0.95                    |
|           | 20         | 1.40                    | 1.33                      | 1.26                    |
|           | 30         | 1.68                    | 1.62                      | 1.54                    |
|           | 40         | 1.98                    | 1.90                      | 1.83                    |
|           | 50         | 2.30                    | 2.22                      | 2.14                    |
|           | 60         | 2.69                    | 2.59                      | 2.50                    |
|           | 70         | 3.19                    | 3.05                      | 2.93                    |
|           | 80         | 3.90                    | 3.70                      | 3.53                    |
|           | 90         | 5.18                    | 4.83                      | 4.54                    |
|           | 95         | 6.56                    | 6.02                      | 5.59                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.03                    | 0.02                      | 0.02                    |
|           | 95         | 0.13                    | 0.09                      | 0.07                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.01                    |
|           | 90         | 0.05                    | 0.04                      | 0.04                    |
|           | 95         | 0.25                    | 0.18                      | 0.13                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## WESTERN STATES GROUP 1

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.22                    | 1.11                      | 1.00                    |
|           | 20         | 1.76                    | 1.63                      | 1.49                    |
|           | 30         | 2.28                    | 2.15                      | 2.01                    |
|           | 40         | 2.87                    | 2.72                      | 2.57                    |
|           | 50         | 3.57                    | 3.40                      | 3.23                    |
|           | 60         | 4.47                    | 4.24                      | 4.03                    |
|           | 70         | 5.71                    | 5.37                      | 5.08                    |
|           | 80         | 7.66                    | 7.09                      | 6.63                    |
|           | 90         | 11.56                   | 10.42                     | 9.52                    |
|           | 95         | 16.27                   | 14.32                     | 12.82                   |
| pp'DDE    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.00                      | 0.00                    |
|           | 60         | 0.02                    | 0.01                      | 0.00                    |
|           | 70         | 0.04                    | 0.02                      | 0.01                    |
|           | 80         | 0.11                    | 0.07                      | 0.05                    |
|           | 90         | 0.66                    | 0.32                      | 0.20                    |
|           | 95         | 3.33                    | 1.13                      | 0.57                    |
| pp'DDT    | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.01                    | 0.00                      | 0.00                    |
|           | 70         | 0.02                    | 0.01                      | 0.00                    |
|           | 80         | 0.05                    | 0.03                      | 0.01                    |
|           | 90         | 0.44                    | 0.12                      | 0.06                    |
|           | 95         | 3.99                    | 0.44                      | 0.17                    |

TABLE 16 FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

WESTERN STATES GROUP (CONT)

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.01                    | 0.00                      | 0.00                    |
|           | 50         | 0.01                    | 0.01                      | 0.00                    |
|           | 60         | 0.02                    | 0.02                      | 0.01                    |
|           | 70         | 0.06                    | 0.04                      | 0.03                    |
|           | 80         | 0.17                    | 0.12                      | 0.08                    |
|           | 90         | 0.96                    | 0.53                      | 0.34                    |
|           | 95         | 4.45                    | 1.84                      | 1.01                    |

<sup>1</sup> Includes Arizona, Nevada, New Mexico and Utah

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## WISCONSIN

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 1.46                    | 1.30                      | 1.13                    |
|           | 20         | 1.92                    | 1.76                      | 1.59                    |
|           | 30         | 2.35                    | 2.19                      | 2.02                    |
|           | 40         | 2.80                    | 2.64                      | 2.47                    |
|           | 50         | 3.33                    | 3.14                      | 2.97                    |
|           | 60         | 3.97                    | 3.74                      | 3.54                    |
|           | 70         | 4.84                    | 4.51                      | 4.24                    |
|           | 80         | 6.14                    | 5.61                      | 5.20                    |
|           | 90         | 8.60                    | 7.60                      | 6.87                    |
|           | 95         | 11.38                   | 9.76                      | 8.62                    |
| DDTR      | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.00                    | 0.00                      | 0.00                    |
|           | 80         | 0.00                    | 0.00                      | 0.00                    |
|           | 90         | 0.02                    | 0.01                      | 0.00                    |
|           | 95         | 0.09                    | 0.04                      | 0.03                    |
| Dieldrin  | 10         | 0.00                    | 0.00                      | 0.00                    |
|           | 20         | 0.00                    | 0.00                      | 0.00                    |
|           | 30         | 0.00                    | 0.00                      | 0.00                    |
|           | 40         | 0.00                    | 0.00                      | 0.00                    |
|           | 50         | 0.00                    | 0.00                      | 0.00                    |
|           | 60         | 0.00                    | 0.00                      | 0.00                    |
|           | 70         | 0.01                    | 0.00                      | 0.00                    |
|           | 80         | 0.01                    | 0.01                      | 0.00                    |
|           | 90         | 0.02                    | 0.02                      | 0.01                    |
|           | 95         | 0.07                    | 0.04                      | 0.03                    |

TABLE 16. FREQUENCY DISTRIBUTION FOR PESTICIDE RESIDUES IN CROPLAND SOIL  
INCLUDING THE 95% CONFIDENCE INTERVAL (CONT)

## WYOMING

| Pesticide | Percentile | Upper<br>Limit<br>(ppm) | Residue<br>Level<br>(ppm) | Lower<br>Limit<br>(ppm) |
|-----------|------------|-------------------------|---------------------------|-------------------------|
| Arsenic   | 10         | 0.27                    | 0.23                      | 0.19                    |
|           | 20         | 0.41                    | 0.36                      | 0.31                    |
|           | 30         | 0.55                    | 0.50                      | 0.44                    |
|           | 40         | 0.72                    | 0.66                      | 0.60                    |
|           | 50         | 0.92                    | 0.85                      | 0.78                    |
|           | 60         | 1.19                    | 1.10                      | 1.02                    |
|           | 70         | 1.58                    | 1.45                      | 1.34                    |
|           | 80         | 2.24                    | 2.00                      | 1.82                    |
|           | 90         | 3.67                    | 3.14                      | 2.76                    |
|           | 95         | 5.55                    | 4.54                      | 3.86                    |



TABLE 17. COMPARISON OF MEAN PESTICIDE RESIDUES IN SOIL AMONG VARIOUS CROPPING REGIONS  
(Parts Per Million)

| Pesticide Name     | Corn  | Cotton | Cotton & Gen. Farming | Gen. Farming | Hay & Gen. Farming | Irrigated Land | Small Grains | Veg.  | Veg. & Fruit |
|--------------------|-------|--------|-----------------------|--------------|--------------------|----------------|--------------|-------|--------------|
| Aldrin             | 0.05  | <0.01  | <0.01                 | 0.02         | <0.01              | <0.01          | <0.01        | <0.01 | 0.01         |
| Arsenic            | 7.44  | 6.72   | 4.88                  | 5.35         | 6.42               | 4.77           | 5.70         | 8.75  | 3.27         |
| Atrazine           | 0.02  | --     | --                    | --           | --                 | --             | <0.01        | --    | --           |
| Carbophenothion    | 0.09  | <0.01  | 0.01                  | 0.01         | 0.03               | 0.03           | <0.01        | <0.01 | 0.14         |
| Chlordane          | --    | --     | --                    | <0.01        | --                 | --             | <0.01        | ND    | --           |
| 2,4-D              | ND    | ND     | ND                    | ND           | ND                 | <0.01          | ND           | ND    | ND           |
| DAC                | <0.01 | 0.01   | <0.01                 | <0.01        | <0.01              | 0.01           | ND           | <0.01 | 0.01         |
| op'DDE             | 0.01  | 0.16   | 0.13                  | 0.07         | 0.05               | 0.18           | <0.01        | 0.18  | 0.37         |
| pp'DDE             | 0.01  | 0.09   | 0.04                  | 0.05         | 0.03               | 0.05           | <0.01        | 0.07  | 0.06         |
| op'DDT             | 0.06  | 0.54   | 0.22                  | 0.25         | 0.20               | 0.19           | <0.01        | 0.50  | 0.64         |
| pp'DDT             | 0.14  | 0.87   | 0.44                  | 0.43         | 0.30               | 0.48           | <0.01        | 0.81  | 1.92         |
| DDTR               | --    | ND     | ND                    | <0.01        | ND                 | ND             | ND           | ND    | ND           |
| DEF                | --    | ND     | ND                    | --           | --                 | 0.01           | --           | --    | --           |
| Diazinon           | <0.01 | ND     | ND                    | ND           | <0.01              | 0.01           | ND           | ND    | ND           |
| Dicofol            | 0.05  | 0.01   | <0.01                 | 0.03         | 0.02               | 0.02           | <0.01        | 0.05  | 0.04         |
| Dieldrin           | <0.01 | ND     | ND                    | ND           | <0.01              | <0.01          | ND           | ND    | ND           |
| Endosulfan (I)     | <0.01 | ND     | ND                    | ND           | <0.01              | 0.01           | ND           | <0.01 | ND           |
| Endosulfan II      | <0.01 | ND     | ND                    | ND           | <0.01              | 0.01           | ND           | <0.01 | ND           |
| Endosulfan Sulfate | <0.01 | 0.01   | <0.01                 | <0.01        | ND                 | 0.01           | <0.01        | 0.01  | 0.01         |
| Endrin             | ND    | ND     | ND                    | ND           | ND                 | ND             | ND           | <0.01 | <0.01        |
| Endrin Aldehyde    | ND    | <0.01  | <0.01                 | ND           | ND                 | <0.01          | ND           | <0.01 | <0.01        |
| Endrin Ketone      | --    | ND     | ND                    | --           | --                 | <0.01          | --           | --    | --           |
| Ethion             | --    | ND     | ND                    | <0.01        | ND                 | <0.01          | --           | --    | --           |
| Ethyl Parathion    | 0.01  | ND     | ND                    | <0.01        | ND                 | <0.01          | ND           | ND    | <0.01        |
| Heptachlor         | 0.01  | <0.01  | <0.01                 | <0.01        | <0.01              | <0.01          | <0.01        | <0.01 | <0.01        |
| Heptachlor Epoxide | <0.01 | ND     | ND                    | <0.01        | <0.01              | ND             | ND           | ND    | ND           |
| Isodrin            | <0.01 | ND     | ND                    | <0.01        | <0.01              | <0.01          | <0.01        | <0.01 | ND           |
| Lindane            | <0.01 | ND     | ND                    | --           | --                 | ND             | --           | --    | --           |
| Malathion          | --    | ND     | ND                    | ND           | ND                 | ND             | ND           | <0.01 | ND           |
| Methoxychlor       | ND    | ND     | ND                    | <0.01        | ND                 | ND             | ND           | ND    | ND           |
| PCNB               | <0.01 | <0.01  | <0.01                 | 0.01         | <0.01              | 0.01           | ND           | 0.01  | 0.15         |
| op'TDE             | 0.05  | 0.07   | 0.04                  | 0.04         | 0.01               | 0.04           | <0.01        | 0.05  | 0.70         |
| pp'TDE             | <0.01 | 0.42   | 0.20                  | 0.16         | ND                 | 0.14           | ND           | 0.01  | 0.08         |
| Toxaphene          | <0.01 | 0.01   | <0.01                 | <0.01        | ND                 | 0.01           | <0.01        | <0.01 | <0.01        |
| Trifluralin        | <0.01 | 0.01   | <0.01                 | <0.01        | ND                 | 0.01           | <0.01        | <0.01 | <0.01        |

ND = NOT DETECTED

-- = NO ANALYSES

TABLE 18. COMPARISON OF PERCENT OF SITES WITH DETECTABLE PESTICIDE RESIDUES IN SOIL AMONG VARIOUS CROPPING REGIONS

| Pesticide Name     | Corn  | Cotton | Cotton & Gen. Farming | Gen. Farming | Hay & Gen. Farming | Irrigated Land | Small Grains | Veg. | Veg. & Fruit |
|--------------------|-------|--------|-----------------------|--------------|--------------------|----------------|--------------|------|--------------|
| Aldrin             | 23.5  | 6.4    | 0.9                   | 6.6          | 2.1                | 6.5            | 0.6          | 1.1  | 3.0          |
| Arsenic            | 100.0 | 100.0  | 98.4                  | 99.4         | 99.3               | 99.1           | 99.4         | 98.9 | 93.9         |
| Atrazine           | 14.5  | --     | --                    | --           | --                 | --             | 8.3          | --   | --           |
| Carbophenothion    | --    | 1.8    | 2.6                   | 7.2          | 5.5                | 11.1           | 0.9          | 4.3  | 21.2         |
| Chlordane          | 14.5  | --     | --                    | 14.3         | --                 | --             | 1.7          | ND   | --           |
| 2,4-D              | --    | --     | --                    | ND           | ND                 | 0.9            | ND           | ND   | ND           |
| DAC                | ND    | ND     | ND                    | ND           | ND                 | 19.4           | ND           | 5.3  | 15.1         |
| op'DDE             | 0.5   | 15.6   | 5.2                   | 10.8         | 2.8                | 58.3           | 5.8          | 38.3 | 60.6         |
| pp'DDE             | 9.5   | 69.7   | 44.8                  | 46.4         | 21.4               | 33.3           | 3.0          | 23.4 | 36.4         |
| op'DDT             | 3.0   | 51.4   | 25.0                  | 27.1         | 10.3               | 53.7           | 5.8          | 31.9 | 57.6         |
| pp'DDT             | 7.7   | 66.1   | 43.1                  | 42.2         | 16.5               | 60.2           | 6.1          | 39.4 | 63.6         |
| DDTR               | 10.9  | 72.5   | 47.4                  | 49.4         | 22.8               | ND             | ND           | ND   | ND           |
| DEF                | ND    | ND     | ND                    | 0.6          | ND                 | 12.5           | --           | --   | --           |
| Diazinon           | --    | ND     | ND                    | --           | --                 | 5.6            | ND           | ND   | ND           |
| Dicofol            | 0.6   | ND     | ND                    | ND           | 0.7                | 39.8           | 7.0          | 23.4 | 21.2         |
| Dieldrin           | 41.8  | 24.8   | 14.7                  | 25.3         | 15.2               | 1.8            | ND           | ND   | ND           |
| Endosulfan (I)     | 0.3   | ND     | ND                    | ND           | 0.7                | 5.6            | ND           | 1.1  | ND           |
| Endosulfan II      | 0.2   | ND     | ND                    | ND           | 0.7                | 5.6            | ND           | 1.1  | ND           |
| Endosulfan Sulfate | 0.3   | ND     | ND                    | ND           | 1.4                | 11.1           | 0.9          | 3.2  | 6.1          |
| Endrin             | 0.3   | 7.3    | 2.6                   | 3.6          | ND                 | ND             | ND           | ND   | 3.0          |
| Endrin Aldehyde    | ND    | ND     | ND                    | ND           | ND                 | 2.8            | ND           | 1.1  | 3.0          |
| Endrin Ketone      | ND    | 2.8    | 0.9                   | ND           | ND                 | 6.3            | --           | --   | --           |
| Ethion             | --    | ND     | ND                    | --           | --                 | 12.5           | --           | --   | --           |
| Ethyl Parathion    | --    | ND     | 1.7                   | 10.0         | 1.4                | 0.9            | ND           | ND   | 3.0          |
| Heptachlor         | 8.6   | ND     | 3.4                   | 1.8          | 4.1                | 13.0           | 0.9          | 4.3  | 12.1         |
| Heptachlor Epoxide | 13.3  | 0.9    | ND                    | 7.8          | ND                 | ND             | 0.6          | 3.2  | ND           |
| Isodrin            | 1.2   | ND     | 2.6                   | 1.8          | 0.7                | 1.8            | --           | --   | ND           |
| Lindane            | 0.3   | ND     | ND                    | 1.2          | --                 | ND             | --           | --   | ND           |
| Malathion          | --    | ND     | ND                    | --           | --                 | ND             | ND           | 1.1  | ND           |
| Methoxychlor       | ND    | ND     | ND                    | ND           | ND                 | ND             | ND           | ND   | ND           |
| PCNB               | ND    | ND     | ND                    | 0.6          | ND                 | 13.0           | ND           | 5.3  | 6.1          |
| op'TDE             | 0.3   | 0.9    | 2.6                   | 10.8         | 2.1                | 38.0           | 1.8          | 27.7 | 45.4         |
| pp'TDE             | 3.3   | 47.7   | 25.9                  | 35.5         | 11.7               | 12.0           | ND           | 1.1  | 6.1          |
| Toxaphene          | 0.2   | 22.9   | 12.1                  | 10.2         | ND                 | 9.3            | 0.3          | 2.1  | 3.0          |
| Trifluralin        | 2.0   | 12.8   | 7.8                   | 6.0          | ND                 | --             | --           | --   | --           |

ND = NOT DETECTED

-- = NO ANALYSES